



The Electronic MAR and Script

Welcome to American Data CARES, the online resource for all your ECS needs. This handout may be read independently or in conjunction with the corresponding video *The Electronic MAR and Script* in our American Data CARES library. This handout covers *how the Script interface is embedded within the eMAR*. If after reviewing this material, you need further assistance, please contact cares@american-data.com or 800-464-9942.




The eMAR and the Script Interface

Nursing workflow was a priority when American Data developed the functionality of the Script interface. Traditionally interfacing is a function outside the nursing; for valid reasons! With the critical impact this Interface could have on patient safety and medication administration, American Data felt nursing must keep in tune with the messages being exchanged between facility and pharmacy.

With this in mind, American Data integrated the interface messaging with the eMAR. Nurses are intimately familiar with the eMAR functionality and they utilize this function multiple times a shift. It made sense to put visual cues and messages in this location.

When the Script Interface is enabled each medication order that is entered into ECS has an Rx icon next to it on the eMAR. The color of the Rx icon provides important information to staff.

Sample eMAR with Script Interface Enabled

	Drug: Furosemide 20MG Tablet Dose: (1 tablet / 20mg) by mouth twice per day 0700 1500 For: Edema
	Drug: Ranitidine HCl 150MG Tablet Dose: (1 tablet / 150mg) by mouth daily 1600 For: Active Duodenal Ulcer (Active DU)
	Drug: [MS Contin]Morphine Sulfate ER 30MG Tablet Extended Release Dose: (1 tablet / 30mg) by mouth at bedtime 2100 x 5 days For: Moderate to Severe Chronic Pain

Green Rx Icon

The green Rx icon informs users the message was electronically sent and pharmacy accepted the message.

Yellow Rx Icon

The yellow Rx icon signifies the message was sent electronically, however pharmacy has not yet sent validation of accepting the message. It is expected users see yellow icons for the first ten minutes after the order is written as it may take this amount of time for pharmacy to route a validation message back to ECS.

Red Rx Icon

The red Rx icon alerts staff the message was not sent to pharmacy electronically. Red Rx icons should be reviewed and addressed. Once the issue is resolved staff manually changes the icon to green.

The Script History

While in the eMAR, users have access to the history and status of the electronic Script messages. To review the Script History first select the order to review then select the Script button.

Sample eMAR

Entries		Time	November 2015	December 2015						
			26	27	28	29	30	1	2	3
Peppermint, Patty 02/15/1933 82 Yrs F Site 2 1North 103-1										
Drug: [Lasix]Furosemide 20MG Tablet Dose: (1 tablet / 20mg) by mouth twice per day 0700 1500 For: Edema	Entry Date: 11/30/2015	0700 1500								
Drug: Atenolol 100MG Tablet Dose: (1 tablet / 100mg) by mouth twice per day 0800 2000 For: Hypertension Administration Instructions: hold if SBP is less than: 100	Entry Date: 12/03/2015	0800 AM B/P: 2000								
Drug: Digoxin 125MCG Tablet Dose: (1 tablet) by mouth daily 1200 For: Chronic Atrial Fibrillation	Entry Date: 12/03/2015	1200 Midday AP:								
Drug: [Tylenol]Acetaminophen 325MG Tablet Dose: (2 tablet / 650mg) by mouth every 6 hours as needed For: Fever , Pain	Entry Date: 12/03/2015	as needed as needed as needed as needed								
Drug: [MS Contin]Morphine Sulfate ER 15MG Tablet Extended Release Dose: (1 tablet / 15mg) by mouth twice a day as needed For: Moderate to Severe Chronic Pain	Entry Date: 12/03/2015	as needed as needed								

Once the Script button is selected the following screen appears displaying the Script electronic message history and status.

Sample Script History Screen

Message Summary
Event Note Status

Rx Fill

[Tylenol]Acetaminophen 325MG Tablet(2 tablet / 650mg) by mouth every 6 hours as needed Fever , Pain GIVEN FOR: ICD: K26,

Pharmacy: INTEGRATION PHARM - AmData
2828 Main Street, Prairie Du Sac WI, 53578
TEL: 8557939773
FAX: 8774504447

Prescriber: Adrian T. Booker MD
1234 Ward Parkway, Prairie Du Sac WI, 53578
TEL: 8557939773

Prescriber Order Number: AD_605001d7b9014c929754f9a6ee7ee5a

RX Reference Number: LasixFill222

Show XML

NewRx		Message
RxFill	Request already responded to by other means (e.g. phone or fax) was already sent 8888	

Resolve Exit

The right-side of the screen displays the electronic messages listing them in chronologic order. The left-side of the screen toggles between the summary of the electronic message (this is the default) and the entire electronic message. To review the full electronic data click the **Show XML** button.

Red Rx Icon Workflow

When an Rx icon is red, nursing reviews the history to see the notes from pharmacy. This assists staff with determining the course of action for this order. The above RxFill message was initially a red Rx icon (see video) because pharmacy did not fill the order. Upon reviewing the above Tylenol order the nurse can see the pharmacy had already sent the medication. The nurse manually resolved the red Rx icon by clicking the **Resolve** button. This action turns the red Rx icon to green.

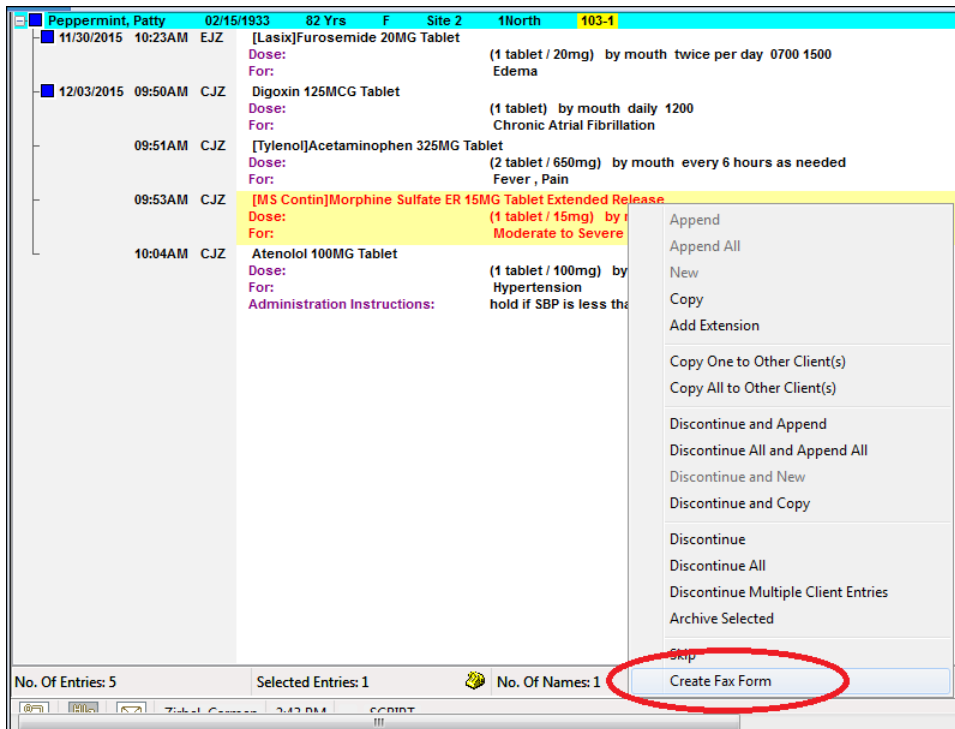
When narcotic medications are ordered the nurse must fax the order to pharmacy. ECS presents a red Rx icon on the eMAR if the nurse does not print the fax form presented at the time of writing the order. This can be resolved by either printing the fax form or by manually resolving the error. Please note the error should be manually resolved only if the order was sent to pharmacy in another manner. To print the fax form after the order has been saved

1. Review the order in a View Screen
2. Right-click on the order
3. Select **Create Fax Form** from the menu (see image below).

The most common reasons for red Rx icons on the eMAR include:

- The Fax Form was not printed when a new narcotic order was entered into ECS
- Pharmacy returned an electronic message stating they did not fill the requested medication
- Pharmacy returned an electronic message stated pharmacy denied a cancel medication order

Printing Fax Form



The expectation is there will be no red Rx icons on the eMAR. To facilitate this for nursing, American Data added a new button on the Physician Order Access Screen. This button gathers all the select clients' eMARs and displays the orders that have red Rx icons.

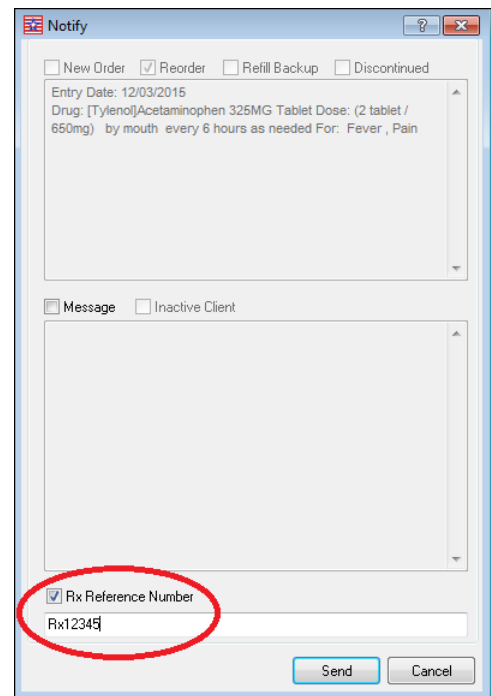
Physician Order Access Screen

Physician Orders	New Orders					Chart Review	Reports
Nurse Menu	Allergies	Diet/Supplements	Nursing Orders	Supportive Devices	Side Effects	View/Edit Current Orders	Print Physician Orders
	Blood Glucose Checks	Lab/Xray	Orders Continuation	Therapy	Psychotropic Med Monitoring	View/Edit Held Orders	Print MAR
	Code Status	Life Activity/ FYI	Protocols/ Vaccines	Transfers/ Discharges		View Current/DC'd Orders	Print TAR
	Consults	Medications	Standing Orders	Treatments		For E-Prescribing	Print Daily Telephone Orders
						Census Requirements	
						Script Holding Queue	
						Red Rx (eMAR) Review	

 **NOTE: Orders that are NOT electronic appear on this eMAR as well**

Reasons why an order may not be electronic include:

- Ordering prescriber was free-typed in the order
 - When an order is saved in this manner it must be faxed to pharmacy
 - To resolve this issue the prescriber should be added into ECS
- The Pharmacy Note exceeded the 210 character limit
 - When an order is saved with this character limit exceeded, nursing is alerted of the validation error and must fax the order
 - To resolve this issue discontinue and copy the order to abbreviate the note to pharmacy
 - The note to pharmacy is different than Administration Instructions
- The order was entered prior to the interface being turned on
 - When this type of order is cancelled the cancel must be faxed to pharmacy
 - If this medication is up for reorder, the order can be sent electronically by manually entering the RxReferenceNumber at the time of Re-Order (see image to the right).



Conclusion

The Script interface streamlines communication between facility and pharmacy. American Data developed workflows to assist staff with this new functionality. If you have questions or concerns please contact the clinical department at clinical@american-data.com or (800) 464-9942.

Thank you for taking the time to learn more about *The Electronic MAR and Script*. Please check out other videos and documentation for more great information about ECS!