



ExitMeds[®] Medication Management System

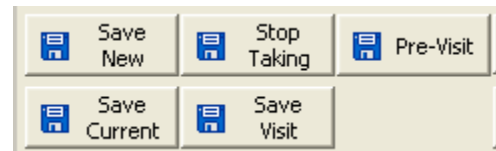
Electronic Prescription Writing | Medication Reconciliation | Drug Information Sheets
Drug Interaction Checking | Patient Medication Schedule

ExitMeds[®] is a module within ExitCare[®]—it is the gateway to the management of medications.

The primary focus of ExitCare's Medication Reconciliation is to document the status of all medications for the patient. A Med Report listing all medications for reconciliation purposes combined with a summary "Patient Signature Page" (listing the final reconciliation given to the patient) may be printed individually at any time for the chart. The summary includes documentation of all information given to the patient, including educational topics.

Entering Medication Information

- 1) **HL7 Interface:** If medication data is available as part of an HL7 interface, ExitCare can "map" the data and make it available as part of a patient record. The status of each medication, if known, can also be sent via the HL7 interface.
- 2) **Drug history:** If the medication for a specific patient has been entered on a previous visit, they can be easily imported into the current visit using the "Drug History" tab (see image at top of next page). This capability allows the clinician to make certain that drugs previously prescribed are included. It provides easy identification of drug seekers. If the user wishes to add a drug from the history, simply check the box to the left of the desired medication and import it as either a "Current" or a "New" medication.
- 3) **Enter medications individually:** Each user can create his/her own custom drug list. Most medications are entered in about 20 seconds. After entering the drug specifics, simply click on the appropriate status and it will display on the drug list.



Drug History Screen

Patient Information **Drugs** Congestive Heart Failure

Patient Name: Harry Heart Patient ID: 234-56-7890 Patient DOB: 9/13/1955
 Patient MR#: HH031506 Patient Gender:

Drug Allergies: penicillin

New Script Drug Summary **Drug History** Patient Medication Schedule Drug Interactions/Allergies

Search Information

First Name: Patient ID: Use _ to represent any single character
 Last Name: MR Num: Use % to represent any series of characters (wildcard)

 Hide Duplicates

Drag a column header here to group by that column

	Last Name	First Name	Medical Rec Num	Drug Name	Date Printed	Form	Dose	Route
<input type="checkbox"/>	Heart	Harry	HH031506	klotrix	4/19/2006	tablet, extended release; oral	10meq	1 tab orally
<input type="checkbox"/>	Heart	Harry	HH031506	lisinopril and hydrochlorothiazide	4/19/2006	tablet; oral	12.5mg;10mg	1 tab orally
<input type="checkbox"/>	Heart	Harry	HH031506	amoxicillin	4/19/2006	capsule; oral	250mg	1 cap orally
<input type="checkbox"/>	Heart	Harry	HH031506	lipitor	8/8/2006	tablet; oral	eq 20mg base	1 tab orally

Changing the Status of a Drug

Once drugs are listed on the Drugs Tab, changing the drug status is easy. Click on the down arrow to the right of the current status, and select the appropriate status from the list. When documenting at admission or triage, users can select "Pre-Visit Med"—thus saving the reconciliation for a later time. ExitCare will not permit printing while any medications status is still listed as "Pre-Visit."

Often the patient does not know important information about medications they are taking. ExitCare allows users to enter "unknown" when this occurs. Once the information is known, users can modify these entries by clicking on the down arrow to the right of the appropriate field.

	Drug Status	Drug Name	Form/Route	Strength	Dose
<input type="checkbox"/>	New	amoxicillin	capsule (oral)	250mg	1 cap
<input type="checkbox"/>	Take as previo	aspirin	tablet (oral)	325mg	1 tab
<input type="checkbox"/>	New	Create New Script From Selected Drug Take as previously directed Changed	tablet (oral)	25mg	1 tab orally
<input type="checkbox"/>	Stop Taking		tablet (oral)	Unknown	1 tab orally
<input type="checkbox"/>	In-Hospital				
<input type="checkbox"/>	Pre-Visit Med				
<input type="checkbox"/>	New	klotrix	tablet sustained release ...	Unknown	1 tab orally

Inpatient and Paper Documentation

Some sites require paper documentation or documentation signed by a physician. Printing the Med Report allows a physician to modify the status and approve—by signature—the reconciliation at any time. Two blank rows are provided at the top of the report if the physician wishes to add any medications to the list.

Printed: 4/3/2007 3:07 PM Page 1 Of 2											
Patient drugs for - Harry Heart MR# HH031506 Patient ID: 234-56-7890											
Drug Status	Drug Name ▲	Form/Route	Strength	Dose	Frequen- cy	Directions	Amount	Refills	Void After	Drug Sheet	Notes
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital										<input type="checkbox"/>	
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital										<input type="checkbox"/>	
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital	amoxicillin	capsule (oral)	250mg	1 cap	3 times a day	by mouth	30	0		<input type="checkbox"/>	
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital	aspirin	tablet (oral)	325mg	1 tab	once a day	by mouth				<input type="checkbox"/>	
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital	atenolol	tablet (oral)	25mg	1 tab orally	once a day	by mouth	90	0		<input type="checkbox"/>	
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital	hydrochlorothiazid e	tablet (oral)	Unknown	1 tab orally	once a day (in the morning)	by mouth	90	0		<input type="checkbox"/>	
<input type="radio"/> New <input type="radio"/> Take as previously directed <input type="radio"/> Changed <input type="radio"/> Stop Taking <input type="radio"/> In-Hospital	klotrix	tablet sustained release (oral)	Unknown	1 tab orally	2 times a day	by mouth	90	2		<input type="checkbox"/>	
Signature _____				Printed Name _____				Date/Time _____			

Note the computer generated date and time in the upper left-hand corner, and the signature line on the bottom of the form.

Drug Interactions

ExitCare has the ability to check for Drug-to-Drug interactions and Patient Drug Allergy-to-Drug interactions. This capability is currently powered by data from Gold Standard.

Drug-to-Drug Interactions

When drug-to-drug interactions occur, the relevant data is profiled on a new tab entitled “Drug Interactions/Allergies.” After all scripts are entered, if interactions exist, the user will automatically be taken to the Drug Interactions/Allergies page.

On the drug-to-drug interaction screen, each drug is listed along with the drug it interacts with. The next column rates the severity of the interaction—“1” for the most severe reaction (Contraindicated Drug Combination) to “3” (Moderate Interaction). The next column lists the specific ingredients which are interacting. If more information on the nature of the interaction is required, users click on the “A” in the “More Info” column to view a monograph detailing the particular interaction. If the user approves the medication regimen in spite of the interactions by checking the box in the “OKed” column, their name is noted in the final column. Users can not access the print system until the interactions are “OKed.”

OKed	This drug	Interacts with this drug	Severity	Severity Description	Interaction	More info	Checked By
<input checked="" type="checkbox"/>	klotrix	lisinopril-hydrochlorothiazide	3	Moderate Interaction:...	POTASSIUM PREPARATIONS/ACE INHIBIT...	A	Roger Jacobi,
<input checked="" type="checkbox"/>	lisinopril-hydrochlorothiazide	klotrix	3	Moderate Interaction:...	ACE INHIBITORS; ARB'S/POTASSIUM PRE...	A	Roger Jacobi,
<input type="checkbox"/>	lisinopril-hydrochlorothiazide	aspirin	3	Moderate Interaction:...	ACE INHIBITORS/ASPIRIN	A	
<input type="checkbox"/>	aspirin	lisinopril-hydrochlorothiazide	3	Moderate Interaction:...	ASPIRIN/ACE INHIBITORS	A	

Sample Drug-to-Drug Interaction Screen

Patient Drug Allergy-to-Drug Interactions

Drug interactions to patient allergies are handled much like drug-to-drug interactions. The resulting data is noted on the same screen with the drug-to-drug interactions. Patient drug allergies are chosen on the first “Patient Information” screen, using check boxes for each allergy (right image). If the patient has stated they have no drug allergies, check the box “No Drug Allergies.” This information will be printed on the facility and patient documentation.

Like drug-to-drug interactions above, there are check boxes for the user to acknowledge they are aware of the interactions, but believe the benefits of the prescribed medications outweigh the possible side effects.

Documentation for the Chart

A standard component of ExitCare is a Patient Signature Page, which contains a summary of all information entered/printed for each patient. The top of the Signature page contains patient demographic information, referral physicians and a list of every document printed. Changes and additions are also documented when such information is entered; such as an additional note for the bottom of the Instruction or a value of the patient’s current weight.

Currently selected items for allergies

penicillin

Selected	Drug Name
<input type="checkbox"/>	humalog
<input type="checkbox"/>	ibuprofen
<input type="checkbox"/>	keflex
<input type="checkbox"/>	lamictal
<input type="checkbox"/>	pediazole
<input checked="" type="checkbox"/>	penicillin
<input type="checkbox"/>	phenobarbital
<input type="checkbox"/>	sepra
<input type="checkbox"/>	suprax
<input type="checkbox"/>	teactal

Show full drug list

Search

Drug Begins With
 Drug Contains

The middle of the Patient Signature Page is a Medication Summary listing all medications, categorized by status (see image next page). If there are drug interactions, they are also listed on the Patient Signature Page. The bottom of the form contains a signature line and a date/time stamp when the page was printed.

Each time any document is printed, an electronic copy is stored in a Permanent Patient Archive. If someone needs to review the medication regimen that was printed for a patient, they can easily access copies of every document printed.

Sample of the Medication Summary Portion of the Patient Signature Page

Medication Summary:

Drug Summary Sheet was selected to be printed

Patient Medication Schedule was selected to be printed

Drug Allergies: None Entered **The following Medications have been DISCONTINUED:**

STOP potassium chloride, 8meq, capsule, sustained release (oral), 1 cap cr orally, once a day, by mouth,

STOP hydrochlorothiazide, 25mg, tablet (oral), 1 tab orally, once a day (in the morning), by mouth,

The Patient was instructed to take these medications:

NEW klotrix, 10meq, tablet sustained release (oral), 1 tab orally, 2 times a day, by mouth, Amount: 90, Refills: 2,

NEW lisinopril-hydrochlorothiazide, 10-12.5mg, tablet (oral), 1 tab orally, once a day (in the morning), by mouth, Amount: 90, Refills: 0,

NEW amoxicillin, 250mg, capsule (oral), 1 cap, 3 times a day, by mouth, Amount: 30, Refills: 0,

Take as previously directed, aspirin, 325mg, tablet (oral), 1 tab, once a day, by mouth,

Take as previously directed, atenolol, 25mg, tablet (oral), 1 tab orally, once a day, by mouth,

Take as previously directed, metformin, 500mg, tablet (oral), 1 tab orally, 2 times a day, by mouth,

Communication with the Patient

When a patient is discharged, it is critical to clearly communicate to the patient the status of all meds—especially those that must be stopped or have been modified. The Drug Summary was specifically designed for this purpose. Users may also list any meds given at the facility.

Drug Summary Example

Drug Summary:					
STOP taking these medications:					
Status	Drug Name	Form	Strength	Route	Frequency
STOP	potassium chloride	capsule, sustained release (oral)	8meq	1 cap cr orally	once a day
Directions/Notes: by mouth -					
STOP	hydrochlorothiazide	tablet (oral)	25mg	1 tab orally	once a day (in the morning)
Directions/Notes: by mouth -					
Take these medications:					
Status	Drug Name	Form	Dose	Route	Frequency
NEW	klotrix	tablet sustained release (oral)	10meq	1 tab orally	2 times a day
Directions/Notes: by mouth -					
NEW	lisinopril-hydrochlorothiazide	tablet (oral)	10-12.5mg	1 tab orally	once a day (in the morning)
Directions/Notes: by mouth -					
NEW	amoxicillin	capsule (oral)	250mg	1 cap	3 times a day
Directions/Notes: by mouth -					
Take as previously directed	aspirin	tablet (oral)	325mg	1 tab	once a day
Directions/Notes: by mouth -					
Take as previously directed	atenolol	tablet (oral)	25mg	1 tab orally	once a day
Directions/Notes: by mouth -					
Take as previously directed	metformin	tablet (oral)	500mg	1 tab orally	2 times a day
Directions/Notes: by mouth -					

Patient Medication Schedule

Some patients—especially those taking multiple medications—may have trouble remembering when to take their meds. Some may even have trouble remembering whether or not they took a particular medication at the appointed time.

This module helps patients track their medication regimen. Each medication is listed by time in chronological order with check boxes. This makes it easy to keep track and ensure the appropriate medications were taken at the appropriate time. Additional weeks can be added with the simple click of a button. A Patient Medication Schedule might look like this:

Patient Medication Schedule									
Harry Heart									
6/11/2006 - 6/17/2006									
Sun 06/11	Mon 06/12	Tue 06/13	Wed 06/14	Thu 06/15	Fri 06/16	Sat 06/17	Time	Dosage	Medication & Instructions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7:00:00 AM	1 cap orally	amoxicillin by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00:00 AM	1 tab orally	aspirin%% by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00:00 AM	1 tab orally	atenolol by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00:00 AM	1 tab orally	klotrix by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00:00 AM	1 tab orally	lisinopril and hydrochlorothiazide by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8:00:00 AM	1 tab orally	metformin hcl by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3:00:00 PM	1 cap orally	amoxicillin by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6:00:00 PM	1 tab orally	klotrix by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7:00:00 PM	1 tab orally	metformin hcl by mouth
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10:00:00 PM	1 cap orally	amoxicillin by mouth

ExitCare continues to improve the workflow in healthcare facilities with the intent of maximizing patient/provider communication. Many improvements come from user suggestions, so please submit recommendations at any time.



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