CHAPTER 24

MEDICATION ADMINISTRATION

(CHARTING, DOCUMENTATION AND THE MED PASS)

Medication Administration and Charting in the Nursing Home (UNDER QUALITY OF CARE REQUIREMENTS)

I. Facility is responsible for administering drugs, timely, as ordered

- 1. Charting
- 2. Pharmacy stopping meds re: no pay
- 3. Pharmacy not supplying in a timely way
- 4. Automatic stop order responsibility

II. Drugs given as ordered and checked against the orders

- 1. Use of MAR
- 2. Patient identification
- 3. Dose recorded by nurse administering
- 4. Nurse identifies initials
- 5. Doses given by nurse preparing as soon as possible after preparing

III. If orders not given as ordered:

- 1. Is there an explanation?
- 2. Is there an incident report?

IV. PRN medications

- 1. Documentation why given and results
- 2. Use of PRNs
- 3. How to reduce numbers of PRNs

V. Crushing medications

- 1. There must be an order
- 2. The facility should NOT use ancillary orders allowing crushing of medication

NURSING ACTIVITIES RELATED TO MEDICATION IN A TYPICAL 120 BED FACILITY

NURSING TASK	AVERAGE HOURS TO ACCOMPLISH TASK
Preparation of medical records for new admissions	24
Ordering new medications throughout the month	90
Reordering medications during the medication pass	40
Reordering treatments during the treatment pass	8
Reconciling meds ordered against meds delivered by pharmacy	90
Validation of orders by pharmacy	40
Review and verification of medication records for following month	60
Preparation of medication cart prior to med pass	30
Identify patients that require medications during the med pass along with the actual meds needed. Positive identification of the patient.	40
Oral medication administration + documentation	520
Treatment administration + documentation	180
Facility review of medical records for missing documentation (holes on MAR and PRN documentation)	16
Preparation of medications for L.O.A.	10
Documenting meds for credit or destruction	60
	TRADITIONAL HOURS TO ACCOMPLISH TASK
TOTALS	1208

MED PASS WORKSHEET

NOTE: Nursing - please use military time when completing time fields

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SAMPLE FACILITY
MED PASS WORKLOAD
February 1, 2014

				ž	NURSING STATION 1	STATIO	Ž						
RESIDENT	12MID	6:00AM	7:00AM	8AM	9-10AM	12N	1-2PM	3-4PM	6-6PM	7-8PM	9PM	10-11PM	TOTALS
Resident 1	2	-		10		_	က		3	4			22
Resident 2		2		10		က	2	2	4	8		1	32
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Resident 16				6					7	5			21
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Resident 18				9					3	-			10
Resident 19				5						3			6
Resident 20				7		-	2	1	-	2	4		18
Resident 21	200			14			+		5	7			27
Resident 22		1		21			-	u de la constante de la consta	7	3			33
Resident 23				22					2				24
Resident 24				1					70.000		25		2
Resident 25		26.480.000.00		8					4	4			16
Resident 26		1	1	8	5		1		4	2	4		26
TOTAL	3	7	6	224	9	6	18	9	9	69	10	-	399

Federal Survey Manual

483.60 Pharmacy Services.

F366 The facility must provide routine and emergency drugs and biologicals to its residents, or obtain them under an agreement described in 483.75 (j) of this part.

<u>Interpretive Guidelines: 483.60.</u> The facility is responsible under 483.75 (j) for the timeliness of the services.

<u>Survey Procedures and Probes: 483.60.</u> During your observation of the drug pass are all needed medications available? If one drug is not available for the resident at its scheduled time of administration <u>AND</u> the omission of that drug can cause the resident discomfort or endanger his or her health and safety, a negative finding should be recorded.

(1) Administration means the obtaining and giving of a single dose of medicinal drugs <u>by a</u> legally authorized person to a patient for his consumption.

SAMPLE POLICY & METHODS

Drug Administration

POLICY:

All medications are to be administered only as prescribed and only by licensed medical or nursing personnel.

METHODS:

- 1. Drug administration is the act in which a single dose of an identified drug is given to a patient.
- 2. Drugs shall be administered in compliance with all local, state and federal laws.
- 3. The nursing director is responsible for the accurate handling and precise administration of drugs to the patient.
- 4. The physician orders should be checked before administering medications.
- 5. Drugs are to be administered as soon as possible after being prepared by the person preparing them.
- 6. The administration of medications will be done by a nurse, LPN or RN, who holds a current valid Florida license, or a graduate nurse under the direct supervision of an RN.
- 7. All nursing personnel assigned to administering medications shall identify their initials by signing their full signature once each month on the medication administration record.

NURSING HOME

PRN Orders in the Nursing Home

- 1. Receipt of orders by nurse
 - a. conditions for which given
 - b. How long given? How frequently given?
- 2. Vendor pharmacists to be informed
 - a. How long will the medication be given?
 - b. How frequently will it be used?
- 3. The physician should be informed if resident is getting the PRN on a regularly scheduled so the order can be changed.
- 4. Procedures to DC if not used in 60 days? 90 days?
- 5. When administered:
 - a. Document that a PRN has been given
 - (1) on the MAR
 - (2) on the back of the MAR
 - (3) nursing notes
 - (4) elsewhere
 - b. Document what was the complaint
 - c. Document the time given, the dose, the route of administration, and if appropriate the injection site
 - d. Results achieved, no results achieved
 - e. The nurse's signature
- 6. Review by the pharmacist

SAMPLE POLICY & METHODS

PRN Medications

POLICY:

PRN medications shall be provided to the residents as ordered by the physician and proper documentation of their usage shall be maintained.

METHODS:

- 1. The nurse receiving the order for a PRN medication should obtain from the physician the condition or conditions for which the medication should be given.
- 2. The pharmacist should be informed whether the medication is expected to be used for a short or long period of time when ordering the medication to reduce the amount of medication that could be wasted.
- 3. When a PRN medication is administered, the nurse should properly document in the chart the following:
 - a. The complaint or the symptom for which the drug was given.
 - b. The dose, time, route of administration, and if appropriate the site of the injection.
 - c. The results achieved or the statement Ano results achieved≅.
 - d. The nurse's signature.

SAMPLE POLICY & METHODS

Refused Medications

POLICY:

It is the policy of this facility to encourage all residents to take medications as ordered by their physician.

METHODS:

- 1. It is the right of each resident to refuse or accept medications ordered by their physician.
- 2. It is the responsibility of the facility and the staff and in the best interests of the resident to encourage those residents who refuse medications to accept them.
- 3. All medications refused by a resident shall be identified in the chart as having been refused with an explanation in writing on the back of the medication administration form, if known, as to why the medications were refused.
- 4. If medications are refused routinely or in the judgment of the nurse, a significant number of times the unit manager shall be notified. The unit manager shall request the assistance of the family, the social services worker, etc. in getting the resident to accept the medication.
- 5. If the unit manager is unsuccessful in getting the resident to accept the medication, the physician shall be contacted and asked to discontinue the orders. If the physician refuses to change the orders, it shall be documented in the chart. Each month thereafter the chart should reflect that the physician is aware of the refusal and the staff regularly encourages the resident to accept the medication.

*Note: the unit manager may designate follow-through to the charge nurse.

THE CONSULTANT PHARMACIST'S REVIEW OF CHARTING DOCUMENTATION

- 1. Regulation requires every 30 days. Part of Unit Dose System. Must be attached or kept on/in the Unit Dose System when administering medications to patients.
- 2. Hospital Should normally occur at time of order entry. Nursing home Review by Consultant Pharmacist.
- 3. Two basic types
 - a. Manual
 - 1. Pharmacy Profile and Nursing MAR
 - 2. Pharmacy and nursing use same profile or MAR

b. Automated

Ideal – if pharmacy and nursing system is same

- Efficient
- Reduces opportunity for error
- Uses same terminology and drug descriptions

4. Charting on MAR

Initial in time box when medication administered. Scheduled doses NOT given - circle time box and indicate on back page reason why not given.

5. Verification process - IMPORTANT check and balance.

- 1. Q: What improvement over the old survey method does the observational method offer?
 - A: The observational method relies on the surveyor actually seeing or not seeing the drugs being administered and comparing that observation to the Physician's order. This provides <u>direct</u> evidence as to whether the drugs were administered in accordance with physician's orders. The technique does not rely on paper review which only provides <u>indirect</u> evidence that a medication error has occurred. The paper review techniques has in fact resulted in facility personnel correcting the paper while actual errors continue to occur.
- 2. Q: Won't observation of the administration of medications distract the nursing staff?
 - A: Yes initially, but the observer is trained to put the individual administering medications at ease. When put at ease, this individual will resort to their usual habit patterns. If those habit patterns are error producing, the Observer will see them.
- 3. Q: Why does the surveyor have to identify in a positive way each drug during the pour?
 - A: Positive identification of the drug is the most critical aspect of the observation technique. Positive identification of the drug is imperative in order to make a valid comparison between what was actually administered and what the physician ordered.
- 4. Q: How does this problem of identifying each drug apply to the unit dose ystem?
 - A: Identification of the drug is crucial regardless of the distribution system used. Most surveyors find it easier to identify a drug under the unit dose system however.
- 5. Q: Will the nursing staff become more aware of medication errors as a result of the observational method?
 - A: Yes, most individuals administering medications are not aware that they are making errors. The observation technique will identify these previously undetected errors.
- 6. Q: Won't this method take more surveyor time?
 - A: Yes, the <u>net</u> time is between 30 to 60 minutes longer depending on the drug distribution system used and the speed of the surveyor.
- 7. Q: Will the medication error detection methodology change the drug regimen review recommendation of consultant pharmacists?
 - A: Perhaps. If the surveyor identifies an appreciable number of medication errors. The consultant pharmacist may no longer be willing to assume correct administration of the drug in making recommendations to physicians.
- 8. Q: Would it be useful for LTCF consultant pharmacists to observe medication administration in the manner of surveyors? Wouldn't this make nursing staffs more familiar with the observational method and less distracted by it?
 - A: If any member of the facility staff including the consultant pharmacist wished to conduct medication error studies using the observation technique it would be useful to the facility and especially to its patients.
- 9. Q: If the surveyors observe and record medication administration of 20 patients who are selected by them, will the record of other patients not be reviewed?

- A: If a surveyor did not feel that the records examined as part of the medication error detection methodology were representative of the facility for other survey purposes (*e.g.* nursing), then he or she would be obliged to examine other than these 20 records until a representative sample was reviewed.
- 10. Q: How will nursing staffs learn what are "significant" and non-significant" errors?
 - A: Implicit in your question is the idea that one needs to differentiate between the two so that significant errors can be more vigorously avoided. That is not what we want to happen. One must remember that **if "non-significant" errors exceed 5 percent**, **the facility will be cited** on the theory that errors of this magnitude indicate that the drug distribution system is flawed and sooner or later will cause significant errors.
- 11. Q: Is the medication error detection methodology a regulation?
 - A: No! It is a surveyor procedure that must be used to determine compliance with Medicare and Medicaid regulations.
- 12. Q: Will improper drug administration procedures such as failure to measure a liquid at eye level result in a medication error?
 - A: Not necessarily. If measuring the liquid this way resulted in the wrong dose being administered, then it would be called an error.
- 13. Q: Why will the observation technique as opposed to the paper review technique be more likely to change the behavior of facility staff?
 - A: The identification of paper errors does not hold as much significance as the identification of actual errors. Consequently it is expected that facility staff will genuinely endeavor to find the cause of actual errors.

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- **483.25 (m)** Level B requirement: Medication errors

 The facility must ensure that ...
 - **F310** (1) It is free of significant medication error rates; and
 - **F311** (2) Residents are free of any significant medication errors.

Interpretive Guideline: 483.25(m).

- A. <u>Dose Reconciliation Technique: Observation Technique</u>
 - I. <u>Medication error</u> means a discrepancy between what the physician ordered and What the surveyor <u>observes</u> during an observation of several different individuals administering drugs to residents in the facility.
 - II. <u>Significant medication error</u> means one which causes the resident discomfort or jeopardizes his or her health and safety. Criteria for judging significant medication errors as well as examples are provided under V.
 - III. <u>Medication error rate</u> is determined by calculating the percentage of errors. The numerator in the ratio is the total number of errors that you observe, both significant and insignificant. The denominator is all the doses you observed being administered plus the doses ordered but not administered. The equation for calculating a medication error rate is as follows:

<u>Medication Error Rate = Number of Errors Observed divided by The Opportunities for Errors x 100.</u>

- IV Significant medication error rate means that in a sample of residents chosen for observation of medication administration, a number of errors in medication administration have occurred. The determination of whether a significant medication error rate occurs is a matter of surveyor judgment. A 5% threshold may indicate a significant medication error rate exists, particularly when the individual medication errors are significant. The facility must remain free of significant medication errors rates.
- V. Significant and non-significant medication errors
 - A. <u>General Rules for Determining Significance</u> The relative significance of medication errors is a matter of professional judgment. Surveyors who are responsible for assessing these requirements must be qualified to exercise such judgment (e.g., pharmacists, nurses). Follow three general rules in determining whether a medication error is significant or not:
 - 1. Resident Condition The resident's condition is an important factor to take into consideration. For example, a potent diuretic erroneously administered to a dehydrated resident may have serious consequences, but if administered to a resident with a normal fluid balance may not. If the

- resident's condition requires rigid control, a single missed or wrong dose can be highly significant.
- 2. Drug Category If the drug is from a category that usually requires the resident to be titrated to a specific blood level, a single medication error could alter that level and precipitate a reoccurrence of symptoms or toxicity. This is especially true if the half life of the drug is short. Examples of drug categories which require titration of resident blood levels include anticonvulsants, anticoagulants, and antiarrhythmic, anti-anginal and antiglaucoma agents.
- 3. Frequency of Error If an error is occurring with any frequency, there is more reason to classify the error as significant. For example, if a resident's drug was omitted several times, as verified by reconciling the number of tablets delivered with the number administered, classifying that error as significant would be more in order. This conclusion may be especially valid when taken in concert with the resident's condition and the drug category.
- B. Examples of Significant and Non-Significant Medication Errors Examples of medication errors that have actually occurred in long-term care facilities are presented below. Some of these errors are identified as significant. This designation is based on expert opinion without regard to the status of the resident. Most experts concluded that the significance of these errors, in and of themselves, have a high potential for creating problems for the typical long-term care facility resident. Those errors identified as non-Resident status and frequency of error could classify these errors as significant.
 - 1. Omissions (drug ordered but not administered at least once)

Haldol 1 mg BID	NS
Motrin 400 mg TID	NS
Quinidine 200 mg TID	S
Tearisol Drops 2 both eyes TID	NS
Indocin 25 mg TID pc	NS
Lioresal 10 mg TID	NS
Thorazine 25 mg BID	NS
Ampicillin 500 mg TID	NS
Metamucil one packet BID	NS
Inderal 20 mg one very 6 hrs.	S
Multivitamin one daily	NS
Mylanta Susp. One oz., TID AC	NS
Nitrol Oint. One inch	S
Librium 10 mg one TID	NS
Cortisporin Otic drop 4 to 5	
Left ear QID	NS
Aldactone 25 mg QID	NS

2.	Unauthorized Drug (drugs admini	istered without a physician's	order)
	Feosol Coumadin 4 mg Lasix 40 mg Zyloprim 10 mg Tylenol 5 gr Triavil 4-25 Multivitamins Motrin 400 mg		NS S S NS NS NS NS NS
3.	Wrong dose		
	Ordered Isoptocarpine 1% one drop in the left eye TID	Administered three drops in Each eye	NS
	Epinal 1% one drop in eyes BID	three drops in Each eye	NS
	Digoxin 0.125 mg everyday	0.25 mg	S
	Lasix 20 mg one daily	40 mg	NS
	Amphojet 30cc QID	15 cc	NS
	Slow K two TID	One	NS
	Dilantin 125 susp 12 cc	2 cc	S
	Lasix 40 mg daily	20 mg	NS
4.	Wrong route of administration		
	Ordered Hydergine 0.5 mg SL.L. Bid	Administered resident Swallowed	NS
	Cortisporin Otic drops 4-5 left ear QID	Left eye	S
5.	Wrong dosage form Ordered Colace Liquid 100 mg BID	Administered Capsule	NS
	Mellaril 10 mg (*if correct dose was given)	Concentrate	NS*
	Dilantin Kapseals 100 mg three kapseals p.o. HS	Prompt Phenytoin 100 mg three Capsules p.o. HS	S**
	(**Park Davis Kapseals have an ecapsules do not.)	extended rate of absorption.	Prompt phenytoin

6. Wrong dose

Ordered Administered
Tylenol 325 mg Ascriptin S
(Routinely)

7. Wrong time

Ordered Administered Indocin 25 mg PC ACNS Perlactin 4 mg PC AC NS Digoxin 0.25 mg At 9:15 am NS daily at 8AM PC S Tetracycline 250 mg QID AC and HS

S = Significant NS = Not significant

VI. Rules for Determining Medication Errors

A. <u>Timing Errors</u>

If a drug is ordered before meals (AC) and administered after meals (PC) always count this as a medication error. Likewise if a drug is ordered PC and is given AC. Count a wrong time error if the drug is administered 60 minutes earlier or later than it scheduled time of administration, BUT ONLY IF THAT WRONG TIME ERROR CAN CAUSE THE RESIDENT DISCOMFORT OR JEOPARDIZE THE RESIDENT'S HEALTH AND SAFETY. Counting a drug with a long half-life (e.g., digoxin) as a wrong time error when it is 15 minutes late is improper because this drug has a long half-life (beyond 24 hours) and 15 minutes has no significant impact on the resident. The same is true for many other wrong time error (except AC and PC errors) in long-term care facilities.

To determine the scheduled time, examine the facility's policy relative to dosing schedule. The facility's policy should dictate when it administers AM doses, or when it administered the first dose in a 4 times a day dosing schedule.

B. <u>Physician's Orders</u>

The latest recapitulation of the drug orders (monthly "recap") is sufficient for determining whether a valid order exists provided the physician has signed the "Recap" This signed "recap" and subsequent orders constitute a legal authorization to administer the drug. Attempts to find original orders in the physician's handwriting are usually too time consuming.

Survey Procedures and Probes: 483.25(m)

I. <u>Medication Error Detection Methodology</u> Use an observation technique to determine medication errors. This means that you must observe the administration of drugs (on several different drug passes); record what is observed; and reconcile the record of observation with the physician's drug orders to determine whether or not medication errors have occurred.

Do not rely solely on a paper review to determine medication errors. Detection of blank spaces on a medication administration record does not constitute the detection of actual medication errors. Paper review only identifies possible errors. Experience has shown that facility staff are likely to correct the paper rather than correct the errors.

A. <u>Observation Technique</u> - You must know without doubt, what drugs, in what strength, and dosage form, etc. are being administered. This is accomplished prior to drug administration and may be done in a number of ways depending on the surveyor and depending on the drug distribution system used (e.g., unit dose, vial system, punch card).

- 1. Identify the drug product. There are two principal ways to do this. In most cases, they are used in combination.
 - a. Identify the product by its size, shape and color. Many drug products are identifiable by their distinctive size, shape, or color. This technique is problematic because not all drugs have distinctive sizes, shapes or color.
 - b. Identify the product by observing the label. When the punch card or the unit dose system is used, you can usually observe the label and adequately identify the drug product. When the vial system is used, observing the label is sometimes more difficult. Ask the nurse to identify the medication being administered.
- 2. Observe and record the administration of drugs ("pass"). Follow the person administering drugs and observe residents receiving drugs (e.g., actually swallowing oral dosage forms). Be neutral and as unobtrusive as possible during this process.

Make every effort to observe residents during several different drug passes so you will have an assessment of the entire facility rather than one staff member on one drug pass.

Note every detail on your record of the drug administration. For example, "eye drops administered in both eyes" or "nurse took pulse" or "resident swallowed nitroglycerin" or "all drugs crushed and administered in applesauce".

Identifying residents can present a problem. Some long-term care facilities do not use arm identification bands, so assume correctness of the resident by relying on the actions of the nurse and the response of the resident.

- Reconcile your record of observation with physician's orders. Compare the record of observation with the most current signed orders for drugs. This comparison involves two distinct activities:
 - a. For each drug on your list: Was it administered according to the physician's orders? For example, in the correct strength, by the correct route? Was there a valid order for the drug? Was the drug the correct one?
 - b. For drugs not on your list: Are there orders for drugs that should have been administered but were not? Examine the record for drug orders that were not administered and should have been. You are now looking for omitted doses -- one of the most frequent types of errors.

You should now have a complete record of what you observed and what should have occurred according to the physicians \square orders. Determine the number of errors by adding the errors on each resident. Before concluding for certain that an error has occurred, discuss the apparent error with the nurse who administered the drugs. There may be a logical explanation for an apparent error. For example, a surveyor once observed that a resident had received Lasix 20 mg, but the order was for 40 mg. This was an apparent error in dosage. But the nurse showed the surveyor another more recent order which discontinued the 40 mg order and replaced it with a 20 mg order.

- 4. Reporting errors. Describe to the facility each error that you detect (e.g., Mary Jones received digoxin in 0.125 instead of 0.25 mg). You are not required to analyze the errors and come to any conclusions on how the facility can correct them. Do not attempt to categorize errors into various classifications (e.g., wrong dose, wrong resident). The important thing to stress is that an error occurred and that future errors must be avoided.
- 5. <u>Observed morning pass.</u> It is preferable to watch the morning drug administration pass because that is when most doses are administered in long-term care facilities and hence offers the greatest opportunity to observed errors and conserve your survey time.
- 6. <u>Observe several individuals</u>. Strive to observe individuals administering drugs in the facility so that an assessment of medication errors will be more broadly based. This requires the observation of several passes at the same time or different times of the day.

B. <u>Dose Reconciliation Technique: Supplement to the Observation Technique.</u> When an omission error has been detected through the observation technique the dose reconciliation technique can sometimes enable you to learn how frequently an error has occurred in the past. Learning about the frequency of an error can assist you in judging the significance of the error. (See V. Significant and Non-Significant Medication Errors.) The dose reconciliation techniques require a comparison of the number of doses remaining in a supply of drugs with the number of days the drug has been in use and the directions for use. For example, if a drug were in use for 5 days with direction to administer the drug 4 times a day, then 20 doses should have been used. If a count of the supply of that drug shows that only 18 doses were used (i.e., two extra doses exists) and no explanation for the discrepancy exists (e.g., resident refused the dose, or resident was hospitalized) then two omission errors may have occurred.

The dose reconciliation technique can only be used in facilities that indicate the number of drugs received, and the date and the specific \Box pass \Box when that particular supply of drugs was started. Unless this information is available do not use this technique. If this information is not available there is no Federal authority under which you may require it, except for controlled drugs.

II. When to Write a Deficiency for Medication Errors

A. <u>Significant Mediation Error Rate</u> - The determination of whether the facility has a significant medication error rate is matter of professional judgment. Generally, a significant medication error rate exists, if a facility has a medication error rate of 5% or greater. The 5% error rate includes significant and non-significant medication errors.

The basis for writing a deficiency after a particular tolerance has been exceeded relates to the probability that these errors are symptomatic of a drug distribution system that is faulty and that will eventually produce significant errors that can jeopardize the health and safety of residents. The 5% minimum tolerance level was chosen on the basis of the best available information relative

to what is achievable in terms of contemporary drug distribution systems, and the level of

sophistication in methodologies for detecting medication errors.

B. <u>Significant Medication Error</u> - If an individual resident experiences a significant medication error, the surveyor must mark 483.25(m)(2) (Tag #311) out of compliance. (Note: If a surveyor knows a medication error is about to occur, he or she must stop it, but stop it at a point that the staff cannot claim it would not have happened.)

MEDICATION PASS OBSERVATION REPORT

	Facility		Station/Wing		Page	of	1.0	RROR TYPE CODES missions rugs ordered but not administerer	ri at lea	ast on	nce)	5. W	trong trong	Dosag Drug	je Foi	rm
2	Staff Observed		Time Started T	ime Finished	Date		3. W	nauthorized Drug irugs administered without a phys Irong Dose Irong Route of Administration		order	a)	8. M	lfg. S	Time Specs. sional S		or ard (below)
_	RESIDENT	DRUG/DOSE AS	PASSED	С	URRENT	DRUG		SORDERED	1			OR T		E *	8	s _{/NS}
(Rev. 7/01)																
				,												
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		TOTAL NO. OF MEDS PASS	A MANAGEMENT	TOTAL	NO. OF DE			ERROR TOTALS		dili	1Uil	Clif	ARL) TOT		
	See explanation on rever non-significant errors (S	rse for error types and examples o /NS)	significant and		C		TIVE	ERROR TOTALS	>							
Reorder From MED-PASS 860-438-8884	Failure to "shake well" pr Failure to properly mix in Crushing tablets or eaps can provide manufacture Failure to administer ade- Failure to administer medica Administration of medica (1) checking placement c (2) pre- and post-flushing NOTE - II Dilsintin (phen)	sulin suspensions (e.g., "rolling") wit ules where manufacturer states "do r or professional literature to justify quate (i.e., 8 oz) fluids with medicatio dications with food or antacide with those immediately before, dury or in asogastric or gastrostomy tude (or got tube with at least 30 ml or plater prioring before given immediately of the plate of the plate of plate of the plate of plate of the plate of plate of plate pla	hout creating air but not crush" [Exception why modification of consistent of consistent of consistent of the consistent	obles. ris tälvii MD olosege lärm vii rer so spesifier rufacturas (esti- piniskallis) olo	xplains in the il flot compre (d.p., vith a er objore of v enleral nutre	e clinicaliro puse patie diguaistratio with medica ional formi.	coord ent car on of I sation)	why crushing will not adw rel bulk faxatives. NSAIDs or This is especially import NFs) without, as a minim	ersel solid ant w num,	ly al d/liqu with	flect uid p NS/	patio potas AID r	ent, i ssium medi	or: (b) n sup ication) if Fa plem ns.	acility nents).
	multiple ophthalmic prod Allowing resident to swat Failure to properly adminimuth (or using spacer); (e) waiting a minute between NOTE - if resident is una	iister ophthalmic products wherein e	Malers (MDIs). Prop take a slow, deep be ed. edures (e.g., due to	er administrati eath as MDI is dementia) this	on includes: activated; (d	(a) shaking b) holding b be consider	g MDI oreath	well; (b) positioning MDI for a count of 10 after int								
© 1993 MED-PASS, INC		SP4								-						_
© 18	Conclusion/Recommendation	n(s)														
$\overline{}$																
000	CALCULATED	NUMBER OF ERRORS OBSI (Significant + Non Significant)		100 =	%	Cons	sultan	t Pharmacist/Observer								
INH 110200	ERROR RATE	OPPORTUNITIES FOR ERI (Doses Given + Doses Ordered But No	RORS		70											

SAMPLE NURSING INSERVICE PROPER PROCEDURES FOR ACCURATE MEDICATION ADMINISTRATION

OBJECTIVES

Upon completion of this program the attendee should be able to:

- 1 Understand the ACHA inspection process of the med pass.
- 2 Identify methods of passing medications to reduce the risk of spreading infections in the facility.
- 3 Recognize dosage forms that should not be crushed.
- 4 Demonstrate the proper use of inhaler dosage forms for both oral and intranasal administration.
- 5 Discuss the importance of order of administration when multiple eye drops or inhalers are to be administered during the same med pass.
- 6 Identify potential problems of administering medications *via* a g-tube or n.g. tube and methods to reduce the risk of enteral supplement drug interactions.
- Review the facility procedures for proper use of the emergency drug kit and notification of pharmacy when this kit is broken.

THE MEDICATION PASS

- Make sure the cart is ready to use before leaving the nursing station. The appropriate med pass bin should be moved to the top of the cart. Drinks, applesauce, tissues, soufflé cups, *etc.*, should also be on the cart before leaving the nursing station.
- 2 MARs must be used during the med pass. Always make sure the MAR is open to the appropriate patient.
- Medications should always be passed in the same sequence. The drug cart and MARs have been laid out in the appropriate med pass sequence.
- The drug cart should be taken to the first patient's room. Drugs should not be pre-poured and carried to the patient's room.
- Hands must be washed or alcohol gel used prior to starting the med pass and after each patient if contact has been made with the patient.
- 6 The patient must be positively identified.
- The MAR, should be reviewed to determine what meds will be needed for this med pass.
- All unit dose cards for this patient should be taken from the cart, double checked against the MAR and punched directly into a soufflé cup. Meds should not be punched into the hand or touched by the nurse. WE STRONGLY SUGGEST NOT PRE-POURING MEDICATION. Medications must be identified with patient name, drug name, strength, lot number and expiration date up until the time it is administered. ***ONLY THE NURSE PREPARING THE DOSE CAN ADMINISTER IT***
- As meds are punched from the unit dose cards, the cards should be turned over to ensure that they will remain in the same order for the next med pass. The cards can now be replaced in the cart.
- After unit dose cards are used and returned to the cart other, medications needed for this med pass should be obtained from either the liquid cabinet, floor stock drawer or the top drawer (eye drops, ear drops, nitropatches or nitroglycerin capsules).
- Before leaving the cart, make sure that no meds are left on the top of the cart and that no resident can get to the drugs if you walk away.
- Medication should be double checked and only then given to the patient. The patient must be watched to make sure meds are swallowed.
- Meds may be charted at the time they are poured or after administration. In either case the orders must be charted prior to moving to the next patient.
- If the nurse has charted the medication and the drug can not be given (*i.e.*,. the patient refuses, pulse or BP too low) the nurse must:
 - a) chart the dose and circle it to indicate the dose has been held.
 - b) explain the reason for holding the dose on the back of the MAR.
- 15 If patient contact occurs your hands must be washed before going to the next patient.

LIQUIDS

- 1) Always check a liquid to determine if the product should be shaken before administration. In general, solutions and syrups do not have to be shaken. Suspensions and emulsions need to be shaken.
- 2) If a dropper is to be used in measuring the appropriate dose, the dropper should be held at eye level.

NURSING HOME

- 3) If an "Adaptacap" is on the bottle and a syringe will be used for measuring the liquid, the bottle should be inverted and the syringe filled at eye level.
- 4) If a syringe is being used to measure the liquid dose, the syringe must be washed after the med pass is completed. DO NOT USE ONE SYRINGE FOR DIFFERENT PATIENT'S MEDS OR FOR DIFFERENT PRODUCTS.
- 5) If multiple liquids are going to be administered at the same time:
 - a) NEVER pre-pour multiple liquids in a single medication cup unless meds are going to be administered immediately
 - b) Watch for a cloudy precipitate when liquids are mixed together. This usually indicates an interaction that may alter the effect of the medication.
- 7) Always verify that the correct liquid has been poured before administration.
- 8) Always wipe bottles clean before putting the bottle away.

EYE DROPS

- 1) The nurse must wash hands before and after eye drop administration.
- 2) Eye drop containers cannot come in direct contact with eyelashes or eyelids.
- 3) Eye drops that are "Suspensions" must be shaken prior to administration.
- 4) If a cotton ball is used to wipe eyes or cheeks after administration and if the drug is being used for infection **DO NOT USE THE SAME COTTON BALL FOR BOTH EYES.**
- 5) If multiple eye drops are being used they must be separated from each other by at least 5 minutes. You should question the order in which drops are used.
 - a) If Atropine (or Homatropine) is being used with an antibiotic drop, the Atropine should be administered first.
 - b) If an ophthalmic ointment is being used with an antibiotic drop, the drop should be used first.

INHALERS

- 1) If multiple inhalers are being used, specify which product should be used first. If a bronchodilator (*i.e.*, Proventil or Ventolin) is being used with a steroid inhaler (Aerobid, Beclovent or Vanceril) the bronchodilator should be used first.
- 2) If a patient has difficulty using an inhaler, the pharmacy should be contacted. Products such as Aero-Chamber or Inspirease can be used to increase the effectiveness of the inhaler.

LANOXIN

- 1) Pulse must be taken and charted prior to administering the drug. It should not be taken after the fact.
- 2) The drug should not be automatically held if pulse is below 60 unless the order specifies. A pulse consistently below 60 or an extremely low pulse should be referred to the M.D.

INSULIN

- Insulin containers must contain an "OPEN DATE". Insulin should be discarded 30 days after the OPEN DATE.
- 2) If two insulin products are to be mixed consider the order of mixing. Regular Insulin is usually drawn up first.

NURSING HOME

THE MEDICATION PASS INSERVICE POST TEST

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Medication Administration Record (MAR)

- Paper MAR
- Electronic MAR

TJC MM.06.01.01

EP 3

Before administration, verify med selected matches med order and product label

Before administration, verify med is being administered at proper time, in prescribed dose, and by correct route

CMS updates, June 2014

Understand how this impacts your organization, ensure you understand impact and reflect in policy:

- Timing of Medication Administration
- Define hospital standard admin times
- Define categories for time sensitive scheduled admin times (abx, anticoags, insulins)
- Consider what is non-time critical?
- Policy must specify:
 - Meds eligible and not eligible for schedule dosing times
 - o Administration of meds outside of administration times

Reference: CMS Manual System Pub 100-07 State Operations Provider Certification, DHHS, CMS, Transmittal 116, June 6, 2014.

General considerations:

- Does environment allow for nurse to validate med against MAR (such as when removing from ADC)?
- What are rules for dual verification and how is this accomplished on the MAR?
- May need to look outside of MAR for certain meds or details such as flow rates or volumes infused, depends on system.
- Consistent naming across systems (within eMAR, ADC, on product packaging) to avoid confusion
- BCMA = best practice

Appendix A: Standard Administration Times and Timely Medication Administration.

Documentation of medications on the eMAR should be completed immediately prior to administration, at the patient's bedside or chairside.

SCHEDULE	ADMINISTRATION TIMES	SCHEDULE	ADMINISTRATION TIMES
Daily (PO)	0900 0800 (Psych)	Every 24h (for IV)	Time will default from hour profiled
Bedtime	2100		
2 times daily	0900, 2100 0800, 1700 (Psych)	Every 12h	0900, 2100
3 times daily	0900, 1400, 2100 0800, 1200, 1700 (Psych)	Every 8h	0800, 1600, 2400
4 times daily	0900, 1300, 1700, 2100	Every 6h	0600, 1200, 1800, 2400
5 times daily	0500, 0900, 1300, 1700, 2100		
		Every 4h	0100, 0500, 0900, 1300, 1700, 2100
Before meals	0730, 1130, 1630	Every 3h	0300, 0600, 0900, 1200, 1500, 1800, 2100, 2400
With meals	0800, 1200, 1700	Every 2h	Even hours
With meals & at bedtime	0800, 1200, 1700, 2100	After meals	0830, 1230, 1730

DEFINITIONS:

- A. Medications not given at Standard Medication Administration Times include the following:
 - a. STAT doses
 - b. First time or loading doses
 - c. One time doses
 - d. Doses specifically timed for surgeries/procedures
 - e. Doses timed for serum drug level monitoring
 - f. Investigational drugs
 - g. Doses that are dependent on timing of meals
 - h. PRN doses
- B. Medications on Standard Administration Times: Medications eligible for scheduled dosing times are medications that are ordered and administered according to a standard, repeated cycle of frequency (e.g., once daily, twice daily, or standard hourly intervals). These are subdivided into the following two categories:
 - a. Time-Critical medications: Medications whose early or delayed administration of greater than 30 minutes may cause harm or have significant negative impact on the intended effect.
 - Non-Time-Critical medications: medications in which a longer or shorter interval of time since the prior dose does not significantly change the medication's therapeutic effect or otherwise cause harm.

PROCEDURE:

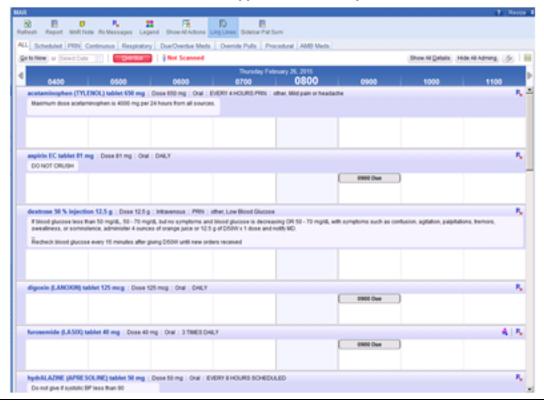
A. Scheduled medications eligible for scheduled dosing times should be administered according to the following table:

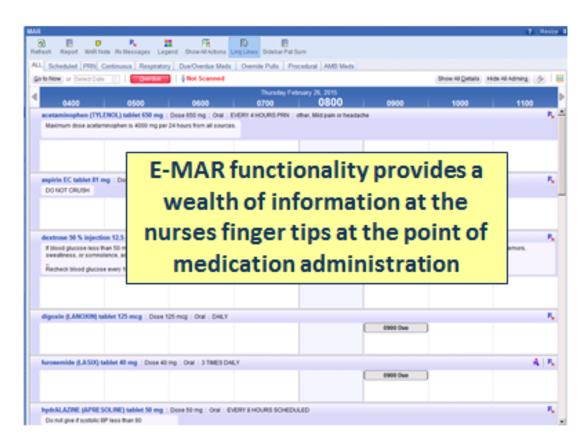
TABLE 1

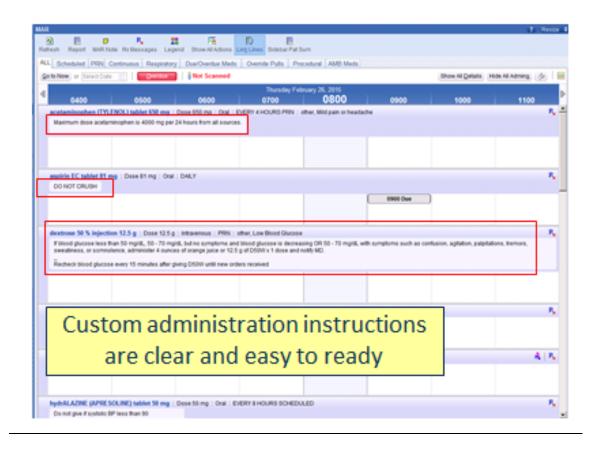
Type of Scheduled Medication (see definitions above)	Goals for Timely Administration	Examples					
Т	ime-Critical Scheduled Medication	ons					
Time-Critical medications	Administer within 30 minutes before or after the scheduled time	Dosing schedule every 4 hours or more frequently Antibiotics for active infection Therapeutic doses (non-prophylactic) of anticoagulants Anticonvulsants Immunosuppressants Scheduled pain medications					
Nor	n-Time-Critical Scheduled Medica	ations					
Medications ordered daily or more frequently, but no more frequently than every 4 hours	Administer within 1 hour before or after the scheduled time	Daily, twice daily (BID), three times daily (TID), four times daily (QID) Every 6, 8, 12, 24 hours					
Medications ordered three times weekly, weekly, or monthly	Administer within 2 hours before or after the scheduled time	Darbepoetin/epoetin Cyanocobalamin					

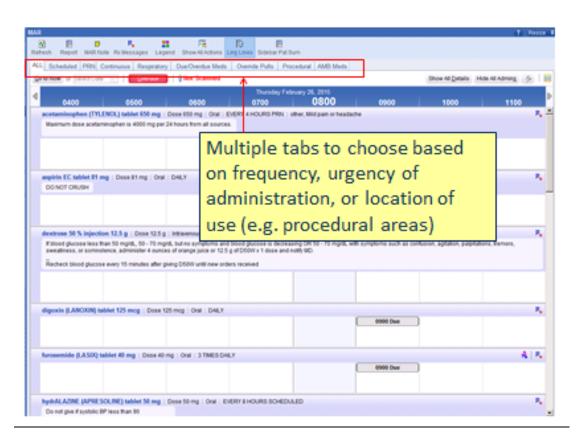
e-MAR

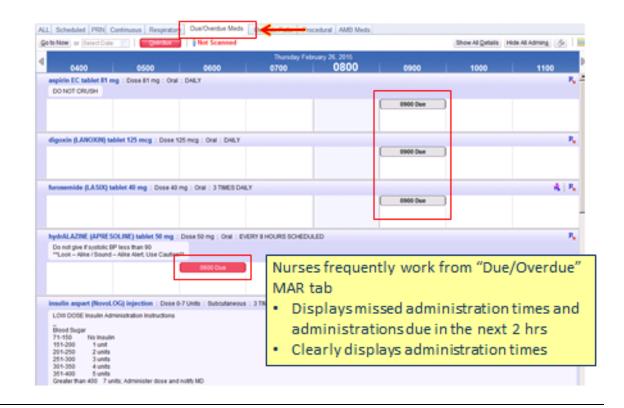
Normale-MAR appearance – Unexpanded view

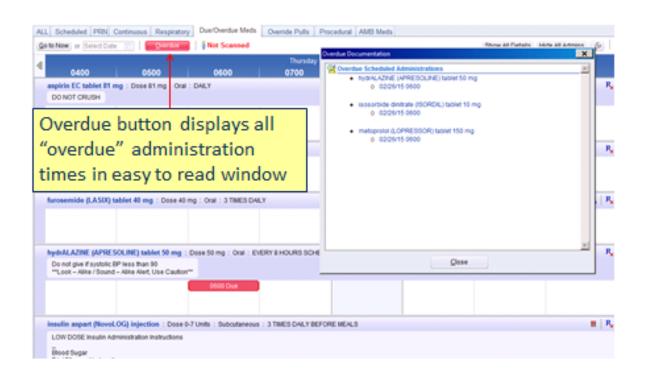


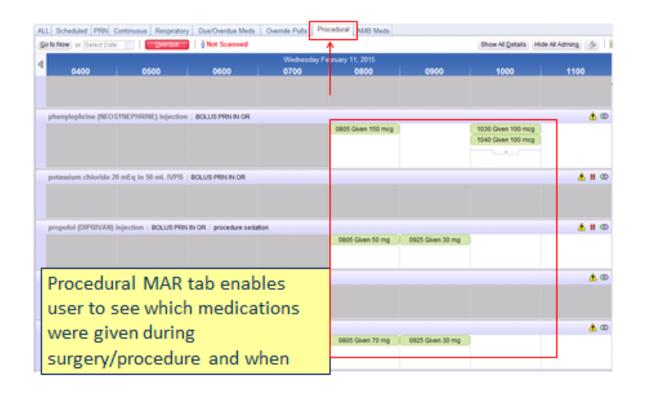


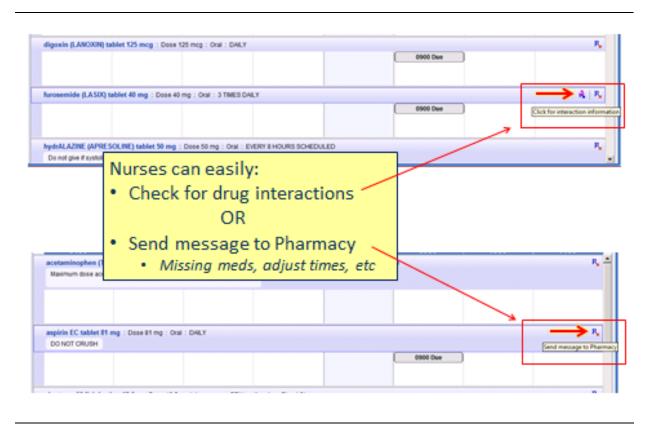






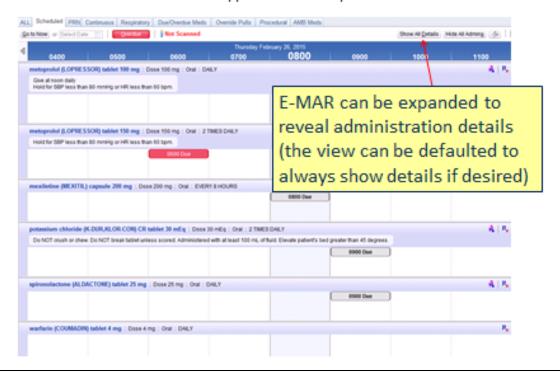




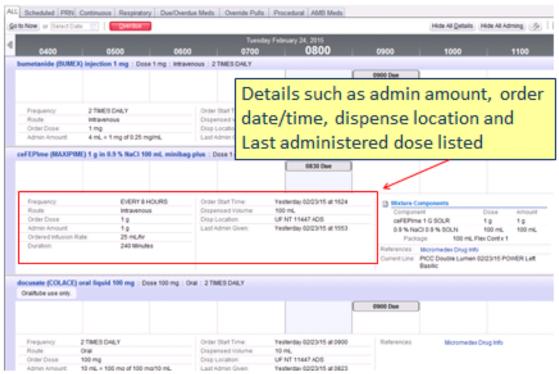


e-MAR

Normale-MAR appearance - Unexpanded view

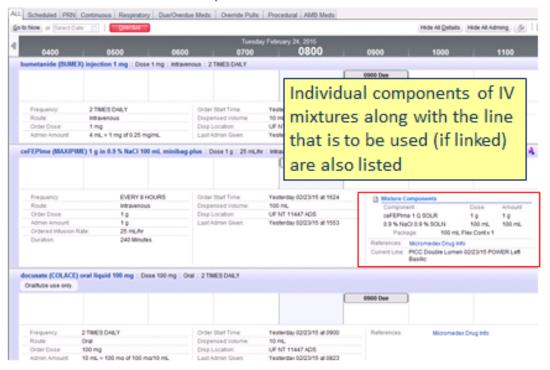


Expanded "Detail" view

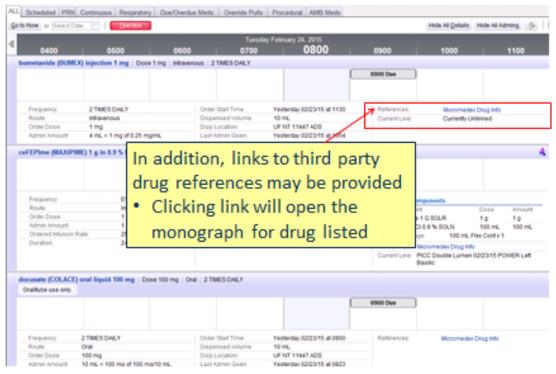


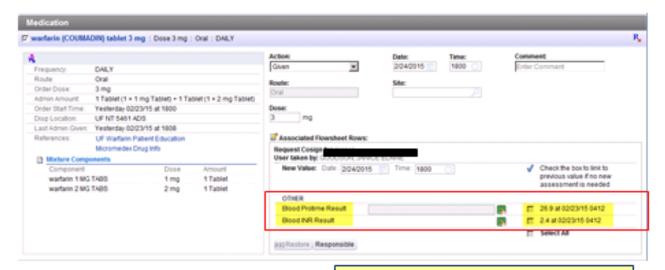
e-MAR

Expanded "Detail" view

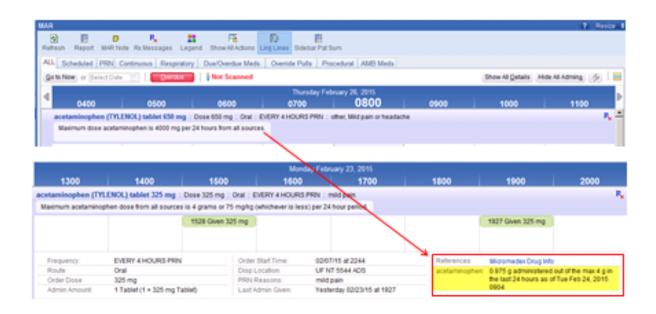


Expanded "Detail" view

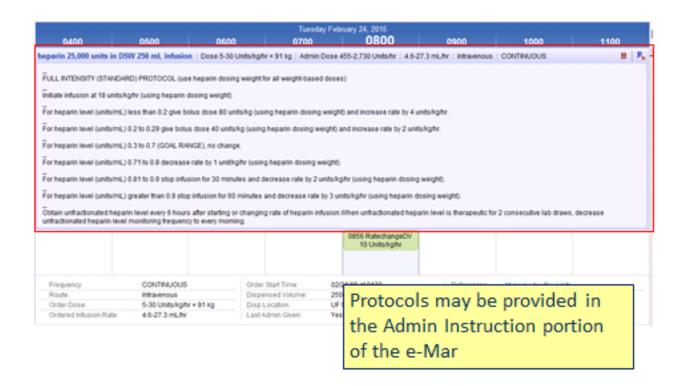


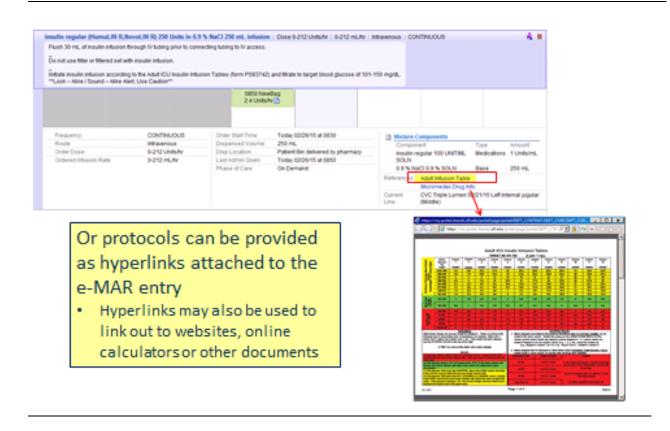


Recent lab values may be provided for medications impacted by labs



Cumulative daily dose calculator embedded into Acetaminophen entries











- Orders may be also placed with "OR" functionality which allows the nurse to select one of the "Or Linked" choices based on the patients condition
- The other dosage forms will be blocked out for the remainder of the dosing interval once one "Or Linked" med is documented as administered

MAR Report

