Patient Safety Alert

veterans Health Administration Warning System Published by VA Central Office

AL09-15 March 3, 2009

Item: Medication Safety- Insulin U-500 Safety Enhancements

Specific Incident: South West VA CMOP received an order for 40 units of U-500

insulin and questioned its validity. The actual dose desired by the physician was 200 units. The physician indicated the 40 units reflected the mark on a U 100 syringe to which the

patient was to draw back the plunger.

General Information: Patients with marked insulin resistance can be prescribed a

concentrated form of human insulin in a concentration of 500 units/mL. Nationally, confusion between U-100 and U-500 insulin concentration during prescribing, dispensing and administration has caused significant patient harm. The VA National Center for Patient Safety (NCPS) has reviewed the Patient Safety Information System database and found multiple patient incidents related to the U-500 insulin. To mitigate U-500 insulin errors CPRS should accurately reflect the actual dose taken by the patient and the Institute of Safe

Medical Practices (ISMP) has made the following

recommendations: Consistent use of a tuberculin syringe with U-500 insulin is recommended, with total doses expressed in terms of both units and volume. For

example, "200 units (0.4mL)."

588 VHA patients received U-500 insulin during Q4FY08, of these patients 124 had a concurrent Rx for NPH, insulin glargine or insulin detemir. Approximately forty percent (40%) of the patients have directions in CPRS that are inconsistent

with the ISMP's recommendations.

Actions: 1. In the VA, to standardize the ISMP recommendations for

the prescribing, dispensing and the use of a tuberculin syringe instead of an insulin syringe for administration of U-500 Insulin the following actions (A thru D) must be taken by the close of

business (COB) March 31, 2009:

A. Pharmacy Information Manager (ADPAC) or designee at all VA medical facilities must:

- (1) Implement U-500 Insulin Quick Order option (See attachment 1, 2 and 3 for procedure) which will:
 - a) Standardize the SIG line to reflect the total dose in terms of units and volume.

E.g. "200 units (0.4mL)"

- b) Label insulin U-500 as "concentrated Insulin"
- c) Include tuberculin syringes which are calibrated in mLs in the order set.
- (2) Remove U-500 Insulin from the CPRS medication alphabetical selection list.
- (3) Notify prescribers to use Quick Order Option to prescribe U-500 Insulin.
- B. Pharmacy Information Manager (ADPAC) will identify patients currently on U-500 insulin with CPRS directions inconsistent with the ISMP recommendation and/or using U-100 insulin syringes. The list of patients will be given to the facilities Chief of Staff (COS). See Attachment 4 for fileman process.
- C. COS will assure that each patient identified in B above is seen by their prescribing clinic within 90 days and education given to the patient on the appropriate insulin U-500 dose to use the proper use of a tuberculin syringe and assure insulin orders are entered into CPRS consistent with the ISMP recommendation. See Attachment 5 for sample cognitive aid. A progress note documenting the education presented and the patient's understanding of the education must be entered into CPRS.
- D. Pharmacy Chief will assure that U-500 insulin is physically segregated from U-100 insulin stored in the Pharmacy Department.



In this example a VAMC has placed U 500 insulin in a locked drawer and labeled as a "High Risk Medication"

2. By close of business June 30, 2009, the Patient Safety Manager (PSM) shall assure that this Alert has been addressed and the action status updated on the Hazardous Recalls / Alerts website, http://vaww.nbc.med.va.gov/visn/recalls/index.cfm.

Addl. Information:

NOTE: there is no U-500 insulin syringe commercially available at this time.

U-500 insulin should also never be used intravenously because of the extremely serious nature of any inadvertent overdose.

Downloadable samples of the cognitive aid and other education tools are available on the NCPS web page at: http://vaww.ncps.med.va.gov/education.html#u500

Additional ISMP Alerts related to U-500 insulin may be found at http://www.ismp.org/Newsletters/ambulatory/archives/200708_2.asp

Source: Associate Director Southwest CMOP (762), ISMP.

Attachments: 1) Unmark U-500 Insulin for CMOP Transmission

2) Remove U-500 from CPRS medication selection list.

3) Implement Quick Orders and CPRS Order Set

4) Sample FileMan process to identify patients receiving U-500

insulin

5) Patient education cognitive aid.

Contact: General Alert Information. Mr. Keith Trettin or Mr. Bryanne Patail

at VA National Center for Patient Safety (NCPS): (734) 930-5890

Attachments 1-4. Robert Silverman, PharmD at VHA Pharmacy

Benefits Management (PBM): (708) 202-5040

ATTACHMENT 1- UNmark U-500 Insulin for CMOP Transmission

(Bold text indicates user responses typed into the system)

Drug Enter/Edit [PSS DRUG ENTER/EDIT]

Select DRUG GENERIC NAME: INSULIN CONCENTRATE

Lookup: GENERIC NAME

INSULIN CONCENTRATE REG HUMAN 500 UNT/ML HS501

...OK? Yes// <RETURN> (Yes)

N/F

This entry is marked for the following PHARMACY packages:

Outpatient Unit Dose Non-VA Med

GENERIC NAME: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML

Replace <RETURN>

VA CLASSIFICATION: HS501// <RETURN> DEA, SPECIAL HDLG: 6// <RETURN>

DAW CODE: <RETURN>

<<<Several intervening fields have been removed here ... press <return> to accept the existing field values>>>

NCPDP DISPENSE UNIT: MILLILITERS// <RETURN>
NCPDP QUANTITY MULTIPLIER: 10// <RETURN>
PRICE PER DISPENSE UNIT: 121.7100<RETURN>

points to INSULIN, REGULAR, HUMAN CONCENTRATED 500 UNIT/ML INJ HUMULIN R in the National Drug file.

This drug has already been matched and classified with the National Drug file. In addition, if the dosage form changes as a result of rematching, you will have to match/rematch to Orderable Item. This drug has also been marked to transmit to CMOP. If you choose to rematch it, the drug will be marked NOT TO TRANSMIT to CMOP.

Do you wish to match/rematch to NATIONAL DRUG file? No// <RETURN> (No) Just a reminder...you are editing INSULIN CONCENTRATE REG HUMAN 500 UNT/ML.

This drug can have Possible Dosages, but currently does not have any.

Create Possible Dosages for this drug? N//<RETURN> 0

LOCAL POSSIBLE DOSAGES:

Do you want to edit Local Possible Dosages? N// <RETURN> 0

This entry is marked for the following PHARMACY packages:

Outpatient Unit Dose Non-VA Med

MARK THIS DRUG AND EDIT IT FOR:

O - Outpatient

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U - Unit Dose

I - IV

W - Ward Stock X - Non-VA Med

Enter your choice(s) separated by commas : 0

O - Outpatient

** You are NOW editing OUTPATIENT fields. **

AN Outpatient Pharmacy ITEM? Yes// <RETURN> (Yes)

CORRESPONDING INPATIENT DRUG: <RETURN>

MAXIMUM DOSE PER DAY: <RETURN>
LOCAL NON-FORMULARY: N/F// <RETURN>
NORMAL AMOUNT TO ORDER: <RETURN>

SOURCE OF SUPPLY: <RETURN>
CURRENT INVENTORY: 0// <RETURN>

ACTION PROFILE MESSAGE (OP): <RETURN>

MESSAGE: <RETURN>

QUANTITY DISPENSE MESSAGE: PER 20ML VIAL (DISPENSE UNIT IS 1)

Replace <RETURN>
OP EXTERNAL DISPENSE: <RETURN>

Do you wish to mark to transmit to CMOP?

Enter Yes or No: YES ← This is the prompt that begins the CMOP unmarking

process

This option allows you to choose entries from your drug file and helps you review your NDF matches and mark individual entries to send to CMOP.

If you mark the entry to transmit to CMOP, it will replace your Dispense Unit with the VA Dispense Unit. In addition, you may overwrite the local drug name with the VA Print Name and the entry will remain uneditable.

Local Drug Generic Name: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML

ORDER UNIT: VI

DISPENSE UNITS/ORDER UNITS: 1

DISPENSE UNIT: VI

PRICE PER DISPENSE UNIT: 121.7100

VA Print Name: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML VA Dispense Unit: VI

VA Drug Class: HS501 CMOP ID: I0452

Do you wish to UNmark this drug to transmit to CMOP?

Do you wish to mark/unmark as a LAB MONITOR or CLOZAPINE DRUG? Enter Yes or No: ${\bf NO}$

** You are NOW in the ORDERABLE ITEM matching for the dispense drug. **

INSULIN CONCENTRATE REG HUMAN 500 UNT/ML is already matched to

INSULIN REG 500 UNIT/ML INJ

Do you want to match to a different Orderable Item? NO// <RETURN>

ATTACHMENT 2 - Remove U-500 from CPRS medication selection list

MARKING A DRUG ITEM AS "QUICK ORDER ONLY" (Also known at some sites as "blinding a drug")

This procedure will remove an item from the alphabetic medication selection list in CPRS. (Bold text indicates user responses typed into the system)

Select Manage orderable items Option: Enter/edit QO restriction Select an ORDERABLE ITEM (meds or labs only): **INSULIN CONCENTRATE REG 500 UNT/ML INJ**

Select the type of usage for which you wish to restrict ordering of this item.

Usage: **OUTPATIENT MEDICATIONS**

QO ONLY: YES// Enter 'YES' if not already present and 'RETURN' to keep the existing value if it has already been set appropriately.

Usage: UNIT DOSE MEDICATIONS

QO ONLY: YES// Enter 'YES' if not already present and 'RETURN' to keep the existing value if it has already been set appropriately.

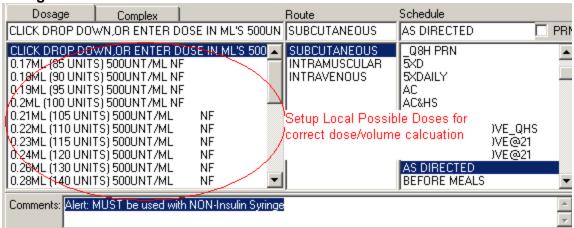
ATTACHMENT 3 - Implementation of Quick Orders and CPRS Order Set

1. Pharmacy Information Manager (ADPAC) creates proper Local Possible Doses to display proper dose/volume for syringe using option "Enter/Edit Dosages".

```
Enter/Edit Dosages
Select Drug: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML HS501
                                                                      N/F
    CAUTION **CONCENTRATE**
This entry is marked for the following PHARMACY packages:
Outpatient
Unit Dose
Non-VA Med
INSULIN CONCENTRATE REG HUMAN 500 UNT/ML *N/F* Inactive Date:
This drug can have Possible Dosages, but currently does not have any.
Create Possible Dosages for this drug? N// <RETURN> 0
This drug has the following Local Possible Dosages:
1 INJECTION
                                                      PACKAGE: IO
2 INJECTION
                                                      PACKAGE: IO
Do you want to merge new Local Possible Dosages? Y// <RETURN> NO
Strength: 500
                           Unit: UNT/ML
Select LOCAL POSSIBLE DOSAGE: 1 INJECTION 10
LOCAL POSSIBLE DOSAGE: 1 INJECTION// @
  SURE YOU WANT TO DELETE THE ENTIRE '1 INJECTION' LOCAL POSSIBLE DOSAGE? Y
  (Yes)
Strength: 500 Unit: UNT/ML
Select LOCAL POSSIBLE DOSAGE: 2 INJECTION
                                            10
LOCAL POSSIBLE DOSAGE: 2 INJECTION// @
  SURE YOU WANT TO DELETE THE ENTIRE '2 INJECTION' LOCAL POSSIBLE DOSAGE? Y
  (Yes)
Strength: 500
                             Unit: UNT/ML
Select LOCAL POSSIBLE DOSAGE: CLICK DROP DOWN, OR ENTER DOSE IN ML'S
 Are you adding 'CLICK DROP DOWN, OR ENTER DOSE IN ML'S' as
   a new LOCAL POSSIBLE DOSAGE (the 1ST for this DRUG)? No// Y (Yes)
LOCAL POSSIBLE DOSAGE: CLICK DROP DOWN, OR ENTER DOSE IN ML'S
          Replace <RETURN>
PACKAGE: IO Both
BCMA UNITS PER DOSE: <RETURN>
```

```
Strength: 500
                              Unit: UNT/ML
You may choose the dosage range to be displayed. One site entered all dosages
from 0.17 ML (85 UNITS) to 0.62 ML (310 UNITS). This example shows creation of
the first 2 dosages, and the creation of a header dosage to be displayed.
Select LOCAL POSSIBLE DOSAGE: 0.17ML (85 UNITS)
 Are you adding '0.17ML (85 UNITS)' as
   a new LOCAL POSSIBLE DOSAGE (the 2ND for this DRUG)? No// Y (Yes)
LOCAL POSSIBLE DOSAGE: 0.17ML (85 UNITS)// <RETURN>
PACKAGE: IO Both
BCMA UNITS PER DOSE: <RETURN>
Strength: 500
                             Unit: UNT/ML
Select LOCAL POSSIBLE DOSAGE: 0.18 ML (90 UNITS)
 Are you adding '0.18 ML (90 UNITS)' as
   a new LOCAL POSSIBLE DOSAGE (the 3RD for this DRUG)? No// Y (Yes)
LOCAL POSSIBLE DOSAGE: 0.18 ML (90 UNITS)// <RETURN>
PACKAGE: IO Both
BCMA UNITS PER DOSE: <RETURN>
Select LOCAL POSSIBLE DOSAGE: <RETURN>
```

Picture: CPRS Medication Order Dialog showing example of local possible dosages with units and volume.



2. Pharmacy Information Manager (ADPAC) adds a message restriction (example shown here) using the Drug Enter/Edit option.

MESSAGE: CAUTION **CONCENTRATE**

GENERIC NAME: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML

Replace ^MESSAGE

MESSAGE: CAUTION **CONCENTRATE**

RESTRICTION: ^

3. Pharmacy Information Manager (ADPAC) to confirm that the U-500 Insulin Dispense Drug is matched to its own individual Orderable Item:

INSULIN CONCENTRATE REG HUMAN 500 UNT/ML is already matched to

INSULIN CONCENTRATE REG HUMAN 500 UNT/ML INJ

4. Clinical Application Coordinator (CAC) confirms that the Orderable Item has been marked as "Quick Order Only" (See Attachment #2)

Select Manage orderable items Option: ENTER/EDIT

4 Enter/edit QO restriction <<< Use this option

Select Manage orderable items Option: Enter/edit QO restriction Select an ORDERABLE ITEM (meds or labs only): **INSULIN CONCENTRATE REG 500 UNT/ML INJ**

Select the type of usage for which you wish to restrict ordering of this item.

Usage: **OUTPATIENT MEDICATIONS**

QO ONLY: YES// Enter 'YES' if not already present and 'RETURN' to keep the existing value if it has already been set appropriately.

Usage: UNIT DOSE MEDICATIONS

QO ONLY: YES// Enter 'YES' if not already present and 'RETURN' to keep

the existing value if it has already been set appropriately.

5. Clinical Application Coordinator (CAC) creates Two quick orders, one each for Inpatient and Outpatient, using option "Enter/Edit Quick Orders"

When creating the "display text" for these quick orders, which is the name that will appear on a CPRS order menu, keep in mind the ISMP recommendation to ensure that the word *Concentrate* appears for each of these orders.

Each order should have comments explicitly instructing the use of a tuberculin (TB) syringe when administering the medication. This can be displayed in BCMA for inpatient orders and can appear on the Rx label for outpatient orders.

- 1 PSJZ INSULIN CONCENTRATE 500 UNT/ML
- 2 PSOZ INSULIN CONCENTRATE 500 UNT/ML

Enter/Edit Quick Orders

Select QUICK ORDER NAME: PSOZ INSULIN CONCENTRATE 500 UNT/ML

NAME: PSOZ INSULIN CONCENTRATE 500 UNT/ML Replace DISPLAY TEXT: Humulin R Concentrated 500 UNITS/ML

Medication: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML INJ // CAUTION **CONCENTRATE**

Complex dose? NO//

Dose: CLICK DROP DOWN, OR ENTER DOSE IN ML'S 500UNT/ML

Replace (non-formulary)

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```
Route: SUBCUTANEOUS//
Schedule: AS DIRECTED//

CAUTION**CONCENTRATE*
Patient Instructions: FOR BLOOD SUGAR
Include Patient Instructions in Sig? YES//
Days Supply:
Quantity (VI):
Refills (0-11):
Pick Up:
Priority: ROUTINE//
Comments:
   Alert: MUST be used with NON-Insulin (TB/Tuberculin) Syringe
Edit? No// (No)

(P)lace, (E)dit, or (C)ancel this quick order? PLACE//
Auto-accept this order? NO//
```

6. Clinical Application Coordinator (CAC) creates Quick order for Tuberculin syringe to be used with U-500 Insulin.

Note: the days supply and quantity as shown here are only a suggestion and may be adjusted according to local policy

```
PSOZ TUBERCULIN SYRINGE 1ML 27G 1/2IN
NAME: PSOZ TUBERCULIN SYRINGE 1ML 27G 1/2IN Replace
DISPLAY TEXT: Tuberculin Syringe 1mL 27G 1/2IN Replace
VERIFY ORDER:
DESCRIPTION:
 No existing text
  Edit? NO//
Medication: TUBERCULIN SYRINGE 1ML 27G 1/2IN SYRINGE/NDL //
Complex dose? NO//
Dose: SYRINGE TUBERCULIN SYRINGE 1ML 27G 1/2IN Replace
Route: SUBCUTANEOUS//
Schedule: AS DIRECTED//
Days Supply: 90//
Quantity (EA): 100//
Refills (0-3): 3//
Pick Up:
Priority: ROUTINE//
Comments:
 To be used with Insulin U-500 rx.
```

7. Clinical Application Coordinator (CAC) creates Quick Order SET for Insulin U-500 and Tuberculin Syringes (using option "Enter/Edit Order Sets").

```
Select ORDER SET NAME: PSOZ INSULIN-R U500 W/SYRINGES

NAME: PSOZ INSULIN-R U500 W/SYRINGES

DISPLAY TEXT: Insulin 500 units/mL Concentrate w/Syringes
Replace

ORDER SET COMPONENTS:

1 PSOZ INSULIN CONCENTRATE 500 UNT/ML
2 PSOZ TUBERCULIN SYRINGE 1ML 27G 1/2IN
```

8. Clinical Application Coordinator (CAC) confirms that a Drug Text Alert is Displayed (entered by Pharmacy ADPAC using options "Drug Text Enter/Edit" and "Edit Orderable Items"):

Drug Text Name: INSULIN CONC 500 UNT/ML

ALERT! * MEDICATION IS 500 UNITS/ML * *CAUTION*

Drug Text Enter/Edit This option enables you to edit entries in the DRUG TEXT file. Select DRUG TEXT NAME: INSULIN CONC 500 UNT/ML Are you adding 'INSULIN CONC 500 UNT/ML as a new DRUG TEXT (the 55TH)? No// Y (Yes) There may be entries in your DRUG file and PHARMACY ORDERABLE ITEM file linked to this Drug Text Name. Editing information related to this Drug Text entry will affect the display of information related to these. Do you want to review the list of drugs and orderable items linked to this Drug Text entry? ? YES// NO Do you want to edit the Drug Text Name? NO// IMPORTANT!! After editing the Drug Text Name OR Text, review the drugs and orderable items linked to this entry for accuracy. Do you want to edit the text for this entry? YES// YES TEXT: ALERT! * MEDICATION IS 500 UNITS/ML * *CAUTION* Select SYNONYM: INACTIVATION DATE: Select DRUG TEXT NAME:

Edit Orderable Items

This option enables you to edit Orderable Item names, Formulary status, drug text, Inactive Dates, and Synonyms.

Select PHARMACY ORDERABLE ITEM NAME: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML INJ N/F

Orderable Item -> INSULIN CONCENTRATE REG HUMAN 500 UNT/ML INJ Dosage Form -> INJ

List all Drugs/Additives/Solutions tied to this Orderable Item? YES// NO

Are you sure you want to edit this Orderable Item? NO// YES

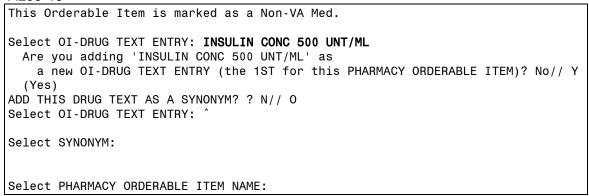
Now editing Orderable Item:

INSULIN CONCENTRATE REG HUMAN 500 UNT/ML INJ

Orderable Item Name: INSULIN CONCENTRATE REG HUMAN 500 UNT/ML Replace

This Orderable Item is Non-Formulary.

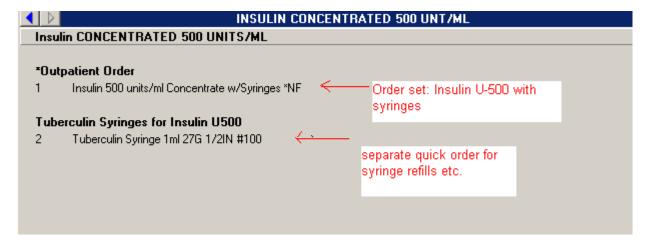
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Will now display as:



9. Clinical Application Coordinator (CAC) creates separate Menu for provider authorized to order (using option "Enter/Edit Order Menus"). One method for restricting access to U-500 insulin is to provide this menu to only a limited number of prescribers.



ATTACHMENT 4- Sample FileMan process to identify patients receiving U-500 insulin

Note: The process shown below was derived from New Service Request #20081114. As such, it is better suited for identifying all patients on a selected medication, but does not contain information to differentiate those patients with SIGs that are inconsistent with the ISMP recommendations for labeling of U-500 insulin.

Facility IRM programmers may download an installable KIDS build version of this method from Shop, All on FORUM, using the following email message which is located in the PHARMACY RELATED basket.

Subj: PSUZ Drug Warnings 1.0 (tv2) [#7999068] 22 Dec 2008 17:30:34 -0500 (EST)

The FileMan print template shown here assumes the availability of a custom FileMan "function" called PSUZDECEASED, which may be created by a programmer as follows:

NAME: PSUZDECEASED

MUMPS CODE: S X=\$S(\$\$GET1^DIQ(2,X,.351)]"":"**",1:"")

EXPLANATION: Function returns "**" if patient deceased, null otherwise.

Step 1 — Create a print template which will act as a spreadsheet header row. VA FileMan 22.0

Select OPTION: INQUIRE TO FILE ENTRIES

OUTPUT FROM WHAT FILE: PRESCRIPTION//
Select PRESCRIPTION RX #: 500300C METFORMIN HCL 500MG TAB, SA

choose any existing Rx ANOTHER ONE: <RETURN>

STANDARD CAPTIONED OUTPUT? Yes// N (No)

FIRST PRINT FIELD: "\\^PATIENT^SSN^ADDRESS 1^ADDRESS 2^ADDRESS 3^CITY^STATE^ZIP^PHONE (HOME)^PHONE (WORK)^PHONE (CELL)^DECEASED?^RX #^DRUG^FINISH D/T^QTY PER DAY^STATUS^REF REM^PRO

VIDER^LAST DISPENSED DATE^RETURNED TO STOCK?"

THEN PRINT FIELD: <RETURN>

Heading (S/C): @// <RETURN>

STORE PRINT LOGIC IN TEMPLATE: PSUZ DRUG WARNINGS HEADER

DEVICE: TELNET PORT Right Margin: 80//

\\^PATIENT^SSN^ADDRESS 1^ADDRESS 2^ADDRESS 3^CITY^STATE^ZIP^PHONE (HOME)^PHONE (WORK)^PHONE (CELL)^DECEASED?^RX #^DRUG^FINISH D/T^QTY PER DAY^STATUS^REF REM^PRO VIDER^LAST DISPENSED DATE^RETURNED TO STOCK?

Step 2 — Create a FileMan Sort and Print template to identify selected prescriptions. This example shows how the method appears when editing an existing template.

Select OPTION: PRINT FILE ENTRIES

OUTPUT FROM WHAT FILE: PRESCRIPTION// SORT BY: RX #// [PSUZ DRUG WARNINGS

(Oct 21, 2008@10:38) User #1 File #52 SORT

WANT TO EDIT 'PSUZ DRUG WARNINGS' TEMPLATE? NO// YES

NAME: PSUZ DRUG WARNINGS//

READ ACCESS:

WRITE ACCESS:

SORT BY: 'FINISH DATE/TIME//

* Previous selection: FINISH DATE/TIME from Jan 1,2005 START WITH FINISH DATE/TIME: Jan 1,2005// (JAN 01, 2005)

GO TO FINISH DATE/TIME: LAST//

WITHIN FINISH DATE/TIME, SORT BY: 'DRUG//

* Previous selection: DRUG from METFORMIN to METFORMINZ

← TO RUN THIS REPORT FOR INSULIN U-500, DEPENDING ON THE EXACT NAME OF THE DRUG IN YOUR SYSTEM, A VALID SORT ORDER

GO TO DRUG: METFORMINZ//

MIGHT BE FROM 'INSULIN C' TO 'INSULIN D', AS IT

WILL INCLUDE 'INSULIN CONCENTRATE...'

```
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    WITHIN DRUG, SORT BY: PATIENT//
    START WITH PATIENT: FIRST//
     WITHIN PATIENT, SORT BY:
STORE IN 'SORT' TEMPLATE:
FIRST PRINT FIELD: [PSUZ DRUG
    1 PSUZ DRUG WARNINGS
                               (Oct 21, 2008@10:46) User #1 File #52
        PSUZ DRUG WARNINGS HEADER
                               (Oct 21, 2008@10:48) User #1 File #52
CHOOSE 1-2: 1
                               (Oct 21, 2008@10:46) User #1 File #52
WANT TO EDIT 'PSUZ DRUG WARNINGS' TEMPLATE? No// Y (Yes)
NAME: PSUZ DRUG WARNINGS//
READ ACCESS:
WRITE ACCESS:
FIRST PRINT FIELD: "\\";X//
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: PATIENT; X//
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: PATIENT:SSN;X//
   By 'SSN', do you mean PATIENT 'SOCIAL SECURITY NUMBER'? Yes//
                                                                     (Yes)
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: PATIENT://
 THEN PRINT PATIENT FIELD: STREET ADDRESS [LINE 1];X
  Replace
 THEN PRINT PATIENT FIELD: "^";X//
  THEN PRINT PATIENT FIELD: STREET ADDRESS [LINE 2];X
  THEN PRINT PATIENT FIELD: "^":X//
  THEN PRINT PATIENT FIELD: STREET ADDRESS [LINE 3];X
 Replace
 THEN PRINT PATIENT FIELD: "^":X//
  THEN PRINT PATIENT FIELD: CITY; X//
  THEN PRINT PATIENT FIELD: "^";X//
  THEN PRINT PATIENT FIELD: STATE; X//
  THEN PRINT PATIENT FIELD: "^";X//
 THEN PRINT PATIENT FIELD: ZIP CODE; X//
  THEN PRINT PATIENT FIELD: "^";X//
 THEN PRINT PATIENT FIELD: PHONE NUMBER [RESIDENCE];X
 Replace
 THEN PRINT PATIENT FIELD: "^";X//
 THEN PRINT PATIENT FIELD: PHONE NUMBER [WORK];X Replace
 THEN PRINT PATIENT FIELD: "^";X//
 THEN PRINT PATIENT FIELD: PHONE NUMBER [CELLULAR];X
 Replace
 THEN PRINT PATIENT FIELD: "^";X//
  THEN PRINT PATIENT FIELD: PSUZDECEASED(INTERNAL(PATIENT));X
 Replace
 THEN PRINT PATIENT FIELD: "^";X//
 THEN PRINT PATIENT FIELD: //
THEN PRINT FIELD: RX #;X//
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: DRUG;X//
THEN PRINT FIELD: "^":X//
THEN PRINT FIELD: NUMDATE(FINISH DATE);X Replace
By 'FINISH DATE', do you mean PRESCRIPTION 'FINISH DATE/TIME'? Yes// (Yes) THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: (QTY/DAYS SUPPLY);X; "QTY PER DAY"
 Replace
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: STATUS; X//
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: (\#9)-(COUNT(REFILL));X; "REF REM" Replace THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: PROVIDER;X//
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: LAST DISPENSED DATE; X Replace
THEN PRINT FIELD: "^";X//
THEN PRINT FIELD: RETURNED TO STOCK; X//
THEN PRINT FIELD:
Heading (S/C): [PSUZ DRUG WARNINGS HEADER] Replace
```

AL09-15 STORE PRINT LOGIC IN TEMPLATE: START AT PAGE: 1// DEVICE:

Attachment 5- Patient education cognitive aid.

Questions?	Notes:	
If in doubt about		Veterans
the change to U-500 insulin,		Administration
check it out with		How to
your Primary		Draw up
Care Provider or		U500
Pharmacist:		Insulin with
		a
		Tuberculin
Primary Care		Syringe
Provider Tel.#		NCPS Sta
Pharmacist Tel.#		
	Prepared by: Edith Nourse Rogers Veterans Memorial Hospital Bedford, MA 01730	National Center for Patient Safety

TWO IMPORTANT FACTS TO REMEMBER

★ I. U-500 insulin is FIVE times stronger than U-100 insulin.

★2 . To make sure you get the right amount of U-500 insulin you must change to a Tuberculin syringe to draw up your insulin.

Important Changes

Your prescription label for U-500 insulin will be different.

It will read: U-500 insulin.
Inject _____ units (___ml.)
You will draw up your U-500 insulin in ml. using a Tuberculin syringe which is marked in ml.

DO **NOT** USE U-100 SYRINGES WITH U-500 INSULIN!

Before you leave the visit, practice with your Diabetes Health Care provider how to:

- Use the right syringes (Tuberculin with ml. markings).
- Draw up your correct amount of U-500 insulin.

Ask questions to make sure you are taking the right amount of U-500 insulin, in the right syringe, and at the right time.

Using a Tuberculin syringe means you will draw up your insulin in ml.

