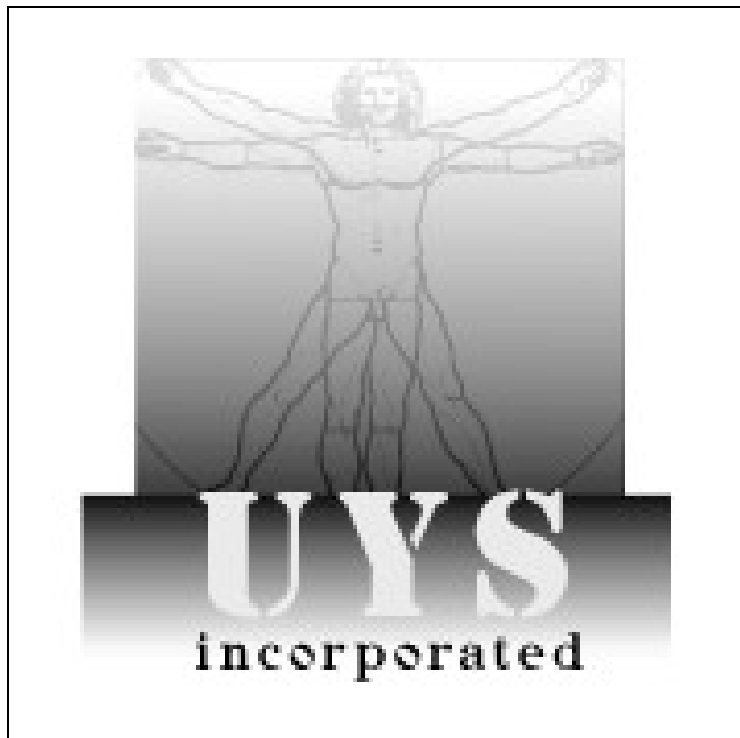


Medication List Order Module



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Medication List Ordering Module

Objective

To provide a module that eliminates thousands of hard coded Medication Index and Medication Selection Screens and replaces them with a dynamic order list file. MLO improves customer (user) satisfaction by reducing the number of selections required for entering a medication order and provides extensive medication cross-references, to simplify locating specific medications.

Background

Traditionally, Series 7000 Medication order entry is accomplished by navigating through a series of hard coded matrices. Indexing is often cumbersome and inefficient; the only option for expediting order entry is to create facility specific common screens. Additionally, maintenance of the pharmacy pathways are labor intensive for the hospital analyst. Due to the rapidly evolving pharmaceutical industry, and the continual increasing workload of the IT department, it is becoming increasingly difficult to maintain the SERIES 7000 pharmacy module as it was traditionally designed.

Problem

Series 7000 does not provide a mechanism to efficiently index multiple matrix entries or provide partial name searches. Because of this, order entry personnel have to step through multiple hard coded indices. Cross-indexing of medications by the generic and brand name is frequently not accomplished consistently due to the limitations of time and the matrices. It is difficult, at best, for the hospital analyst to reorganize matrices to insert new formulary items. These issues present problems for both the clinical users and the IT department. The pathways are cumbersome and inefficient for the clinical users, particularly when trying to order a new or infrequently used medication. Secondly, the time consuming maintenance that must be handled by the IT department poses challenges to meeting the quick turnaround that should be expected by users.

Solution

Medication List Ordering (MLO) eliminates thousands of hard coded Medication Index and Medication Selection Screens and replaces them with a dynamic order list file. Users can select a drug name or enter a partial name and retrieve all formulary matches to a dynamic index. The basic screen flow for medication ordering is retained. MLO improves customer (user) satisfaction by reducing the number of selections required for entering a medication order and by greatly simplifying locating medications with the use of cross referenced, dynamic indices.

Maintenance is as simple as updating the MMF! Think of the benefits of being able to turn around formulary updates in a fraction of the time previously required. Time and money will be saved not having to re-arrange Alpha Medication Index matrices to accommodate new formulary additions (or deletions!) or coding new Medication Selection Screens. Hard coded screens become obsolete.

Overview

MLO uses the existing Medication Master File (MMF) to enable this dynamic ordering configuration. Not only does Information Systems benefit by MLO, but your customers, order entry personnel and pharmacy, will also experience the benefits:

1. Single Index MLO provides a single ordering index for all medications. Partial type in allows users to quickly locate medications for ordering.
2. Cross Reference Brand / Generic Medication Names - the MLO ordering indices include brand to generic cross-referencing for simplified order entry.
3. List / No-List of Brand Names - MLO supports listing or not listing brand names into the medication message structure. Switching options is as simple as changing a parameter.
4. Ordering Help and Administration / Dispensing Information - there are two additional fields displayed to the users from MLO during normal order entry. The first is displayed to the user to provide help and clarification information that does not list into the medication order message. The second is information not only displayed during ordering but also is listed into the message. This is great for including dispensing or administration information. The fields can be maintained by pharmacy if desired.
5. Multiple Formulary Support - the basic MLO configuration includes support for up to 10 formularies.
6. Therapeutic ordering indices are also available via the AHFS code in the MMF. The therapeutic index is maintained as a by-product of normal MMF maintenance. Note: this feature requires advanced pharmacy.
7. Facility specific pharmacy order entry pathways or hard coded matrices can be incorporated into the dynamic indexing feature of the MLO design.
8. MLO preserves the integrity of the pharmacy order message structure therefore supporting continued utilization of Series 7000 order status and order modification pathways.
9. MLO will continue to support non-formulary items available only to Pharmacy personnel for formulary order adjustments to correct billing and drug interaction information.
10. MLO-IV supports IV and IV additives ordering.

Implementation Effort

There are a number of factors that influence the implementation effort associated with MLO. Some of these factors include the current format of the MMF (MLO begins from the post Series 7000 Release 2.0 MMF record layout which is 1344 bytes), whether the MMF has been kept up-to-date, if the Drug Interactions Module is implemented and the number of facilities (formularies) being implemented. The average implementation effort requires 200 hours of UYS support. These hours include the effort to conduct data collection, load all the RFT, HPT, JCL and Matrices needed for MLO, download the MMF and update with the required MLO information, provide training to the facility pharmacy analyst and provide on-site activation support. There are typically 2 on-site visits for implementation, but occasionally a third trip may be necessary (and this assumes UYS will be provide remote access).

Assets

The following is a list of the assets that are included with the UYS Medication List Ordering Module:

- **Consulting Support**
One of UYS' Consultant will work with your IS staff in the installation of the Module. Once installed, the Consultant will provided hands on training sessions to familiarize your staff with the Module
- **Report Format Tables**
The Report Format Table (RFT) is the tool used to load information to the MMF, update the MLO alternate index and populate the master index.
- **Job Control Language**
Sample JCL is provided for creating the MMF alternate index and the master index. The UYS consultant will work with your technical staff to customize the JCL for your site
- **Hospital Parameter Tables**
The Hospital Parameter Tables (HPT keys) are the tools that define the record layouts for the files and indices used to support MLO.
- **Matrices**
The matrices included provide medication ordering by alpha, maintenance for MLO and new components of the MMF and medication ordering by AHFS class.
- **Off-Line Formulary**
In order to expedite any modifications that may be necessary to the MMF (for example, incorporating the Medication Index Name), the MMF is downloaded to an MS Access database. This database can be used for maintaining the MMF is the facility so desires. The RFT, HPT and JCL used to upload and download the MMF are included.

- **Work Plan**
A Microsoft Access based work plan for implementing the Medication List Ordering Module.
- **MLO Update Procedures**
This Microsoft Word document that reviews all the steps necessary for maintaining Medication List Ordering that includes any site-specific customizations that are developed. The document discusses each MLO related field in the MMF, use of the MLO maintenance screens, the background jobs and each RFT used to maintain MLO.

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