Problem List

Technical Manual

Version 2.0

September 1994

Updated: July 2016

Includes updates to functionality added by Problem List patches

GMPL*2.0*1 through GMPL*2.0*40

Department of Veterans Affairs
Office of Information and Technology
Product Development
## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Page</th>
<th>Change</th>
<th>Project Manager/Technical Writer</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2016</td>
<td>2</td>
<td>Minor change per review.</td>
<td>Kenny Condie/Tom Robinson</td>
</tr>
<tr>
<td>June 2016</td>
<td>2, 10, 19, 22</td>
<td>Added descriptions for new functionality provided by GMPL<em>2.0</em>40.</td>
<td>Kenny Condie/Tom Robinson</td>
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<tr>
<td></td>
<td></td>
<td>• First is a <strong>summary</strong> of GMPL<em>2.0</em>40.</td>
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<tr>
<td></td>
<td></td>
<td>• Added the <strong>new options under the Allocations of Options and Menus section.</strong></td>
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<td></td>
<td></td>
<td>• <strong>Added the new options to the list of items on the Problem List Management Menu.</strong></td>
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<td></td>
<td></td>
<td>• <strong>Added a brief description of new options for reporting and correcting SNOMED that should be ICD codes.</strong></td>
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<td></td>
<td></td>
<td>• Removed the Checksum section. For checksum information, see the patch description.</td>
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<tr>
<td>February 2016</td>
<td></td>
<td>Added descriptions for new functionality provided by GMPL<em>2.0</em>45</td>
<td>Kenny Condie/Tom Robinson</td>
</tr>
<tr>
<td>March 2014</td>
<td></td>
<td>Added descriptions for new functionality provided by GMPL<em>2.0</em>42</td>
<td>Kenny Condie/JoAnn Green</td>
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<tr>
<td>May 2013</td>
<td></td>
<td>Updates provided by developer, Joel Russell</td>
<td>Kenny Condie/JoAnn Green</td>
</tr>
<tr>
<td>June 2012</td>
<td>22</td>
<td>Added descriptions for new options provided by GMPL<em>2.0</em>36.</td>
<td>Kenny Condie/JoAnn Green</td>
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<tr>
<td>June 2012</td>
<td></td>
<td>Updates per all problem list patches since the 1994 release, including patch GMPL<em>2.0</em>36</td>
<td>Kenny Condie/JoAnn Green</td>
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<tr>
<td>March-April 2002</td>
<td></td>
<td>Format changes; updates per all problem list patches since the 1994 release, including patch GMPL<em>2.0</em>26</td>
<td>Kenny Condie/JoAnn Green</td>
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Introduction

The Problem List application is used to document and track a patient's problems. It provides the clinician with a current and historical view of the patient's health care problems across clinical specialties. It will allow each identified problem to be traced through the VistA health care system in terms of treatment, test results, and outcome.

The Problem List application is designed to be used by primary caregivers such as physicians, nurses, social workers, and others, in both inpatient and outpatient settings, as well as by ward clerks and coding clerks.

Various data entry methods are possible with this application.

Functionality

- Allows a clinician to view an individual problem list for any given patient.
- Supports a variety of specialized views of a patient's problem list.
- Uses the Lexicon Utility, which permits use of "natural" terminology when selecting a problem. Each term is well-defined and understandable. A user, site, or application may substitute a preferred synonym.
- May be linked to other sections of the medical record, such as Health Summary and Integrated Billing Encounter Forms.
- If Problem List Health Summary components are used in conjunction with the Computerized Patient Record System (CPRS), then you may view Problem List from other treating facilities within the VA, provided Remote Data Views (RDV) have been implemented (includes Health Summary patched up to GMTS*2.7*29, and Order Entry/Results Reporting patched up to patch OR*3.0*85)
- Supports importation of problem information from other clinical settings outside the immediate VAMC.
- Allows reformulation of a problem.
- Supports multiple forms of data capture: Direct clinician entry, clerk entry, encounter forms, foreign problem lists, scannable encounter forms, hand-held devices, etc.
Changes Made by GMPL*2*40 – Erroneous Problem File Cleanup
To correct an issue where SNOMED codes get stored in the DIAGNOSIS field #.01 instead of ICD codes, three new options have been added to the Problem List Mgt Menu [GMPL MGT MENU]:
1. SNOMED in Diagnosis Field Error Report [GMPL DIAG ERROR REPORT]
2. SNOMED in Diagnosis Field Cleanup Report [GMPL DIAG CLEANUP REPORT]
3. Generate SNOMED in Diagnosis Field Err/Cleanup Rpt [GMPL GENERATE DIAG RPTS]

The first two reports identify fields that have the error and where they are cleaned up. The third option enables users with access to this menu to rerun the filescan and cleanup tasks for any potential new errors.

Changes Made by GMPL*2*45 – Changes to Comment Length and a Provider Can Now View, Edit, or Delete Comments Entered by Another Provider
The length of the comment field has been changed from less than 60 characters (which includes spaces and punctuation) to less than 200.

Also, providers can now view, edit, and delete another provider’s comments on a problem.

Changes Made by GMPL*2*42 - PROBLEM LIST SUPPORT FOR ICD-10-CM
This is the Problem List patch to support the requirements of ICD-10-CM implementation. The Problem Search function will continue to originate with the Problem List Subset of SNOMED CT and follow the algorithm introduced by the Problem List Data Standardization effort and CPRS v29. Prior to the ICD-10-CM implementation date (1 October 2015), the selected SNOMED CT code will continue to be resolved to the corresponding ICD-9-CM code(s), and all of the Problem List display and print options will continue to render the diagnostic codes as ICD-9-CM.

Beginning on the ICD-10-CM implementation date, the selected SNOMED CT code will be resolved to the corresponding ICD-10-CM code(s), and all of the Problem List display and print options will render the diagnostic codes as either ICD-9-CM or ICD-10-CM, depending upon the date when the code for the problem was last edited.

ICD Diagnosis Code Search
• The CPRS Problem List application will provide the ability to search for SNOMED CT diagnoses which will be mapped to a generic ICD-10 diagnosis code of R69. This is due to the fact that a SNOMED CT to ICD-10 mapping does not currently exist.

(**NOTE: The mapped R69 code will not be visible or displayed to the user since all returned SNOMED CT diagnoses will be mapped to this generic code. Only the selected SNOMED CT concept code and description will be displayed at the bottom of the search dialog.)
Users may use the following search methods:

- Full SNOMED CT concept codes
- Text strings (i.e. SNOMED CT description)

ICD diagnosis code search is prohibited on the Problems tab.

**Add/Edit/Store ICD Diagnosis Code**

- If the ‘Current System Date’ is on or after the ICD-10 activation date, the CPRS Problem List package will provide the ability to perform the following actions for ICD-10-CM diagnosis codes (problems) through the Action List items on the patient’s problem list.
  - New Problem: Add an active SNOMED CT diagnosis mapped to an ICD-10-CM diagnosis code of R69.
  - Change: Change an active SNOMED CT diagnosis mapped to an ICD-10-CM diagnosis code of R69.
Display ICD Diagnosis

- The CPRS Problem List allows for the display of problems for the Active View, Inactive View, and Removed View options within the initial Problem List.
  - The CPRS Problem List application will display an ICD-10 diagnosis short description within the initial Problem List screen and will label whether an ICD diagnosis code is either ICD-9 or ICD-10. (This applies to legacy problems and problems added through Clinical Reminders, PCE, and/or Group Notes.)
• When user selects the ‘View Details’ action, the CPRS Problem List application will:
  o Display the details of an SNOMED CT diagnosis mapped to an ICD-10-CM diagnosis code of R69 and its full descriptions/definitions
  o Print the SNOMED CT to ICD-10-CM diagnosis code audit history
• When using the ‘View Details’ action, the CPRS Problem List application will display the ICD-10 label, ICD-10-CM diagnosis code, and short description within the audit history.
Print ICD Diagnosis

- When the user selects the ‘View Details’ action:
  - If the date the ICD diagnosis code was entered is on or after the ICD-10 activation date, the CPRS Problem List application will provide the ability to print the ICD-10-CM diagnosis codes and full descriptions/definitions.
  - The CPRS Problem List application will designate whether an ICD diagnosis code is ICD-9 or ICD-10.

Changes Made by GMPL*2.0*44 - PROBLEM LIST ICD-10 CHANGES FOR CLINICAL REMINDERS

This build updates the Clinical Reminders Index cross-references in the Problem file (#9000011) to accommodate ICD-10 CM diagnosis codes. It restructures the Problem List portion of the Clinical Reminders Index to a generic format that can support ICD and SNOMED CT coding systems. This format is:

```
^PXRMINDX (9000011, CODING SYSTEM,"ISPP", CODE, STATUS, PRIORITY, DFN, DLM, DAS)
^PXRMINDX (9000011, CODING SYSTEM,"PSPI", DFN, STATUS, PRIORITY, CODE, DLM, DAS)
```

Where CODING SYSTEM is a three-character abbreviation as defined in the Coding Systems file (#757.03) and CODE is the code, not the pointer. For details, see the Clinical Reminders Index Technical Manual (PXRM_INDEX_TM).

The post-install routine will start a background job to rebuild the file #9000011 index in the new format.

Changes Made by GMPL*2*36 - EXTENSIONS TO ACCOMMODATE SNOMED-CT

The purpose of this patch is to accommodate the use of the Systematic Nomenclature of Medicine -- Clinical Terms (SNOMED CT) for selection of Patient Problems, and to dovetail with the efforts of Standard Data Service (SDS) to implement SNOMED CT on both the Enterprise Terminology Server and the Clinical Lexicon, using the New Term Rapid Turnaround (NTRT) strategy for vetting and deployment of novel clinical expressions.
This patch introduces changes required by CPRS v29 for selection of Patient Problems using SNOMED CT.

A new bulletin, GMPL PROBLEM NTRT BULLETIN, is added by the patch. This bulletin is sent to members of the FORUM mail group g.PROBLEM LIST NTRT when a SNOMED CT Concept is selected by the user for which no ICD-9-CM codes are mapped. The mail group is populated with members of Ol&T’s Standards and Terminology Service. When approved by the Domain Steward for Problem List, new standardized mappings will be deployed using the New Term Rapid Turnaround capability.

Two new options are included in the patch:

**Problem List NTRT Follow-up Report**
This report allows sites to evaluate problems with valid SNOMED CT Concept codes, which were unmapped to ICD at the time of entry.

The report may be filtered by Medical Center Division, Provider(s), and Time Interval.

**Problem List Freetext Follow-up Report**
This report allows sites to evaluate uncoded free text problems that have been entered by one or more providers over a specified time interval.

**Related Manuals**

- Problem List Installation Guide
- Problem List User Manual
- Lexicon Utility v. 2.0 Technical Manual
- List Manager v 1.0 Technical Manual
- Patient Care Encounter (PCE) v. 1.0 Technical Manual
- Kernel v 8.0/Unwinder (XQOR) v. 7.1 Technical Manual
Implementation and Maintenance

Implementation and maintenance of Problem List occur several ways:

1. By integration with other applications:
   - Lexicon Utility (which uses the Multi-term Lookup utility - MTLU - part of the Kernel Toolkit 7.3). The Lexicon Utility can be modified to meet local site needs, to make Problem List fit your hospital's preferences.
   - Encounter Form (part of Integrated Billing)
   - Health Summary
   - Patient Care Encounter (PCE)
   - CPRS

Management of Problem List includes coordinating with these other entities. This linkage should remain transparent to users, but will require setup and coordination by the IRM office and Clinical Coordinators. See the technical and user manuals of those packages for implementation instructions.

2. By setting site parameters with the GMPL PARAMETER EDIT option.

3. By allocating menus and options (see page 7).

By user customization either through GMPL USER PREFS MENU or GMPL BUILD LIST MENU (see the Problem List User Manual for descriptions of these).

Edit PL Site Parameters [GMPL PARAMETER EDIT]

This option lets you toggle four site parameters for the Problem List; these parameters are stored in the Problem List Site Parameters file #125.99.

1. A flag can be placed on problems that are entered by clerks so that a clinician must review the problems and verify them.

2. You can choose whether the users will be prompted to have a chart copy printed when they exit the patient's problem list (if it has changed).
3. You can choose whether to search the Lexicon Utility when adding to or editing a problem list. The Lexicon Utility provides standardized text and codes CD9, CPT, SNOMED, and other codes, if they're available. If you choose not to use the Lexicon Utility, the Problem List will capture ONLY the free text that is entered (the Provider Narrative) [NOTE: Not Recommended by developers].

4. You can choose whether to display the patient problem list in chronological or reverse chronological order.

```
Select Problem List Mgt Menu Option: Edit PL Site Parameters
VERIFY TRANSCRIBED PROBLEMS: YES//? 
  Enter YES to flag transcribed entries for clinician verification.
  CHOOSE FROM:
    1     YES
    0     NO
VERIFY TRANSCRIBED PROBLEMS: YES// NO
PROMPT FOR CHART COPY: YES, ASK//?
  Enter YES to be prompted to print a new copy before exiting the patient's list, if it has been updated.
  CHOOSE FROM:
    1     YES, ASK
    0     NO, DON'T ASK
PROMPT FOR CHART COPY: YES, ASK//<RET>
USE CLINICAL LEXICON: YES//?
Enter YES to allow the user to search the Clinical Lexicon when adding to or editing a problem list; NO will bypass the search, capturing ONLY the free text.
  CHOOSE FROM:
    1     YES
    0     NO
USE CLINICAL LEXICON: YES//<RET>
DISPLAY ORDER: CHRONOLOGICAL/?
Enter the order in which the problems should be displayed for your site, according to the date each problem was recorded.
  CHOOSE FROM:
    C     CHRONOLOGICAL
    R     REVERSE-CHRONOLOGICAL
DISPLAY ORDER: CHRONOLOGICAL//<RET>
```

Select Problem List Mgt Menu Option: <RET>

Problem List Setup for CPRS

Patch GMPL*2*10 created APIs to provide data to CPRS. See the sections on APIs and Remote Procedure Calls under External Relations in this manual. No other setup is required.

Allocation of Security Key

The only security key used by the Problem List Package is GMPL ICD CODE, used to determine if the current user is trained and authorized to code provider text relating to the ICD Diagnosis codes. Recommended allocation: PIMS Coding Clerks.
Exported Options and Menus

The three menus exported with Problem List are:

Problem List Mgt Menu
Create Problem Selection List (contained on the Management menu)
Problem List User Preferences Menus.

Allocation of Menus and Options

IRMS or the Clinical Coordinator can allocate the Problem List menus and options to clinical and clerical users, as appropriate. Only one set-up option (described on the next page) exists for setting site parameters. Several options can help customize the Problem List for users.

<table>
<thead>
<tr>
<th>Menu or Option Name</th>
<th>Technical Name</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assign ICD Diagnoses to Problem List</td>
<td>GMPL CODE LIST</td>
<td>PIMS Clerks, Clinical Coordinators</td>
</tr>
<tr>
<td>Create Problem Selection List</td>
<td>GMPL BUILD LIST MENU</td>
<td>RMS, Clinical Coordinators</td>
</tr>
<tr>
<td>Patient Problem List</td>
<td>GMPL CLINICAL USER</td>
<td>Clinicians, Nurses, Clinical Coordinators</td>
</tr>
<tr>
<td>Problem List Data Entry</td>
<td>GMPL DATA ENTRY</td>
<td>PIMS Clerks, Clinical Coordinators</td>
</tr>
<tr>
<td>Problem List Mgt Menu</td>
<td>GMPL MGT MENU</td>
<td>RMS, Clinical Coordinators</td>
</tr>
<tr>
<td>Problem List User Preferences Menu</td>
<td>GMPL USER PREFS MENU</td>
<td>RMS, Clinical Coordinators, Clinicians, Nurses</td>
</tr>
<tr>
<td>Problem List NTRT Follow-up Report</td>
<td>GMPL NTRT F/U RPT</td>
<td>Clinical Coordinators, Clinicians, Nurses</td>
</tr>
<tr>
<td>Problem List Freetext Follow-up Report</td>
<td>GMPL FREETEXT F/U REPORT</td>
<td>Clinical Coordinators, Clinicians, Nurses</td>
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<td>SNOMED in Diagnosis Field Error Report</td>
<td>GMPL DIAG ERROR REPORT</td>
<td>Clinical Coordinators</td>
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<tr>
<td>SNOMED in Diagnosis Field Cleanup Report</td>
<td>GMPL DIAG CLEANUP REPORT</td>
<td>Clinical Coordinators</td>
</tr>
<tr>
<td>Generate SNOMED in Diagnosis Field Err/Cleanup Rpt</td>
<td>GMPL GENERATE DIAG RPTS</td>
<td>Clinical Coordinators</td>
</tr>
</tbody>
</table>
The options listed below will need to be added to clinician or user menus:

- Patient Problem List [GMPL CLINICAL USER]
- Problem List Data Entry GMPL DATA ENTRY]
- Assign ICD Diagnoses to Problem List [GMPL CODE LIST]
- Problem List User Preferences Menu IIGMPL USER PREFS MENU]

See the Problem List User Manual for further descriptions of Problem List options.
Routine Descriptions

Namespace: *GMPL*

XUPRROU (List Routines) prints a list of any or all of the Health Summary routines. This option is found on the XUPR-ROUTINE-TOOLS menu on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

<table>
<thead>
<tr>
<th>Select Systems Manager Menu Option: programmer Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Programmer Options Option: routine Tools</td>
</tr>
<tr>
<td>Select Routine Tools Option: list Routines</td>
</tr>
<tr>
<td>Routine Print</td>
</tr>
<tr>
<td>Want to start each routine on a new page: No// [ENTER]</td>
</tr>
<tr>
<td>routine(s) ? &gt; GMPL*</td>
</tr>
</tbody>
</table>

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (First Line Routine Print) to print a list of just the first line of each GMTS subset routine.

<table>
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<th>Select Systems Manager Menu Option: programmer Options</th>
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<td>Select Programmer Options Option: routine Tools</td>
</tr>
<tr>
<td>Select Routine Tools Option: First Line Routine Print</td>
</tr>
<tr>
<td>PRINTS FIRST LINES</td>
</tr>
<tr>
<td>routine(s) ? &gt; GMTS*</td>
</tr>
</tbody>
</table>
Cross-References

The Problem List files contain the following MUMPS-type cross-references:

#125.1 - PROBLEM SELECTION LIST CONTENTS FILE

Cross Reference: 125.1^C^MUMPS

1) S:^GMPL(125.1,DA,0),U,2
   ^GMPL(125.1,"C",X,$P(^0,U,2),DA)=""

2) K:$P(^GMPL(125.1,DA,0),U,2)
   ^GMPL(125.1,"C",X,$P(^0,U,2),DA)

Allows retrieval of list contents in sequenced order.

#125.12 - PROBLEM SELECTION CATEGORY CONTENTS FILE

Cross-reference: 125.12^C1^MUMPS

1) S:^GMPL(125.12,DA,0),U,2
   ^GMPL(125.12,"C",X,$P(^0,U,2),DA)=""

2) K:$P(^GMPL(125.12,DA,0),U,2)
   ^GMPL(125.12,"C",X,$P(^0,U,2),DA)

Allows retrieval of problem categories in sequenced order.

Cross-reference: 125.12^C1^MUMPS

1) S ^GMPL(125.12,"C","$P(^GMPL(125.12,DA,0),U),X,DA)=""

2) K ^GMPL(125.12,"C","SP(^GMPL(125.12,DA,0),U),X,DA)

Allows retrieval of problem categories in sequenced order.

#125.8 - PROBLEM LIST AUDIT FILE

Cross-reference: 125.8^AD^MUMPS

1) S:^+$P(^GMPL(125.8,DA,0),U,3)
   ^GMPL(125.8,"AD",X,9999999-$P(^0,U,3)),DA)=""

2) K ^GMPL(125.8,"AD",X,+(9999999-$P(^GMPL(125.8,DA,0),U,3)),DA)
Used to retrieve a problem's audit trail in reverse-chronological order.

Cross-reference: 125.8^AD1^MUMPS

1)  S ^GMPL(125.8,"AD"$P(^GMPL(125.8,DA,0),U),
(9999999-X),DA)="
2)  K ^GMPL(125.8,"AD"$P(^GMPL(125.8,DA,0),U),
(9999999-X),DA)

Used to retrieve a problem's audit trail in reverse-chronological order.

#9000011 - PROBLEM FILE

AA  Cross-reference: 9000011^AA"^MUMPS

1)  S ^AUPNPROB("AA",$P(^AUPNPROB(DA,0),U,2),
$P(\wedge(0),U,6)," _$E("000",1,4-SL(SP(X,"","1)-1)_
SP(X","1)_"_SP(X","2)_$E("00",1,3-SL(
SP(X","2))-1),DA)="
2)  K ^AUPNPROB("AA",$P(^AUPNPROB(DA,0),U,2),
$P(\wedge(0),U,6)," _$E("000",1,4-SL(SP(X,"","1)-1)_
SP(X","1)_"_SP(X","2)_$E("00",1,3-SL(
SP(X","2))-1),DA)

Allows problem retrieval by patient, facility, and problem number (Nmbr); the number is used as a string in " 000.00" format to assure a consistent ordering.

Cross-reference: 9000011^AATO0^MUMPS

1)  I $P(^AUPNPROB(DA,0),U,6)"","$P(^AUPNPROB(DA,0),U,7)""
S X1=$P($P(\wedge(0),U,7),"",X2=$P($P(\wedge(0),U,7),
"",2)^AUPNPROB("AA",X,$P(\wedge(0),U,6)," _$E("000",1,4-SL(X1)-1)_X1_"_X2 $E("00",1,3-SL(X2)-1)
),DA)="" K X1,X2
2)  I $P(^AUPNPROB(DA,0),U,6)"","$P(^AUPNPROB(DA,0),U,7)""
S X1=$P($P(\wedge(0),U,7),"",X2=$P($P(\wedge(0),U,7),
"",2) K ^AUPNPROB("AA",X,$P(\wedge(0),U,6)," _$E("000",1,4-SL(X1)-1)_X1_"_X2 $E("00",1,3-SL(X2)-1),DA),X1,X2
Allows problem retrieval by patient, facility, and problem number (Nmbr); the number is used as a string in " 000.00" format to assure a consistent ordering.

Cross-reference: 9000011^AATO2^MUMPS

1) I $P(^AUPNPROB(DA,0),U,2)"",$P((0),U,7)"
   S X1=$P($P((0),U,7),"."),X2=$P($P((0),U,7),"."),2);
   ^AUPNPROB("AA",$P((0),U,2),X," _SE("000",1,
   4-$L(X1)-1)_X1_ "."_X2_SE("00",1,3-$L(X2)-1),DA)="
   K X1,X2

2) I $P(^AUPNPROB(DA,0),U,2)"",$P((0),U,7)"
   S X1=$P($P((0),U,7),"."),X2=$P($P((0),U,7),"."),2)
   K ^AUPNPROB("AA",$P((0),U,2),X," _SE("000",1,
   4-$L(X1)-1)_X1_ "."_X2_SE("00",1,3-$L(X2)-1),DA),X1,X2

Allows problem retrieval by patient, facility, and problem number (Nmbr); the number is used as a string in " 000.00" format to assure a consistent ordering.

ACTIVE Cross-reference: 9000011^ACTIVE^"MUMPS

1) S:$P(^AUPNPROB(DA,0),U,2) ^AUPNPROB("ACTIVE",+$P((0),U,2),X,DA)="

2) K ^AUPNPROB("ACTIVE",+$P(^AUPNPROB(DA,0),U,2),X,DA)

Allows problem retrieval by patient and status, in order of entry.

ASCT Cross-reference: 9000011^ASCT

1)= S ^AUPNPROB("ASCT",SE(X,1,30),DA)="
2)= K ^AUPNPROB("ASCT",SE(X,1,30),DA)
3)= ** DO NOT DELETE **

This REGULAR FileMan cross-reference on SNOMED CT Concept will help to automate the updating of problems when SNOMED Concepts are mapped or re-mapped to ICD-9-CM codes.

AV9 Cross-reference: 9000011^AV9^"MUMPS

1) S:$D(APCDLOOK) DIC("DR")="
2) Q

Controls the behavior of the input templates used by IHS to populate
and maintain this file.

Cross-reference:9000011.1111^AV9^MUMPS
1) S:SD(APCDLOOK) DIC("DR")=""
2) Q

Controls the behavior of the input templates used by IHS to populate and maintain this file.
Archiving and Purging

Archiving and purging utilities, as such, are not provided in the distributed files for version 2.0.

However, the PROBLEM LIST AUDIT FILE, #125.8, holds an audit trail of all changes made to the Problem List file entries including the old and new values, who made the change, and why.
Callable Routines/Entry Points/Application Program Interfaces (APIs)

APIs, callable routines, and entry points can be viewed by first choosing the DBA menu option on FORUM and then choosing the Integration Agreements Menu option: IAs INTEGRATION CONTROL REGISTRATIONS ...
## External Relations

The Problem List package is dependent upon the following VistA packages to function correctly.

<table>
<thead>
<tr>
<th>Package</th>
<th>Minimum Version for initial Installation</th>
<th>Recommended Version as of Patch 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICD-10</td>
<td>N/A</td>
<td>ICD<em>18</em>57</td>
</tr>
<tr>
<td>Lexicon Utility</td>
<td>1.0</td>
<td>2*80</td>
</tr>
<tr>
<td>Kernel</td>
<td>7.1</td>
<td>8.0</td>
</tr>
<tr>
<td>Toolkit (MTLU)</td>
<td>7.2</td>
<td>7.3</td>
</tr>
<tr>
<td>List Manager</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>OE/RR</td>
<td>2.5</td>
<td>3.0</td>
</tr>
<tr>
<td>PCE</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>PIMS/MAS</td>
<td>5.3</td>
<td>5.3</td>
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<tr>
<td>Fileman</td>
<td>20.0</td>
<td>22.0</td>
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<tr>
<td>Unwinder</td>
<td>7.1</td>
<td>Kernel 8.0</td>
</tr>
</tbody>
</table>

## Internal Relations

All options may be independently invoked.

### Menus

**GMPL MGT MENU**

Problem List Mgt Menu  
1  Patient Problem List [GMPL CLINICAL USER]  
2  Edit PL Site Parameters [ROUTINE]  
3  Create Problem Selection Lists ... [GMPL BUILD LIST MENU]  
4  List Patients with Problem List data [GMPL PATIENT LISTING]  
5  Search for Patients having selected Problem [GMPL PROBLEM LISTING]  
6  Replace Removed Problem(s) on Patient's List [GMPL REPLACE PROBLEMS]  
7  Problem List NTRT Follow-up Report [GMPL NTRT F/U RPT]  
8  Problem List Freetext Follow-up Report [GMPL FREETEXT F/U REPORT]  
9  SNOMED in Diagnosis Field Error Report [GMPL DIAG ERROR REPORT]  
10 SNOMED in Diagnosis Field Cleanup Report [GMPL DIAG CLEANUP REPORT]  
11 Generate SNOMED in Diagnosis Field Err/Cleanup Rpt [GMPL GENERATE DIAG RPTS]
GMPL BUILD LIST MENU
Create Problem Selection Lists
1 Build Problem Selection List(s) [GMPL BUILD SELECTION LIST]
2 Copy Selection List from IB Encounter Form [GMPL BUILD ENC FORM LIST]
3 Assign Selection List to User(s) [GMPL ASSIGN LIST]
4 Remove Selection List from User(s) [GMPL DE-ASSIGN LIST]
5 Delete Problem Selection List [GMPL DELETE LIST]

GMPL USER LOOK-UP DEFAULTS
Problem Look-up Defaults
1 Filter [GMPL USER LOOK-UP FILTER]
2 Display [GMPL USER LOOK-UP DISPLAY]
3 Vocabulary [GMPL USER LOOK-UP VOCABULARY]
4 Shortcuts [GMPL USER LOOK-UP SHORTCUTS]
5 List Current Defaults [GMPL USER LOOK-UP LIST]

GMPL USER PREFS MENU
Problem List User Preferences Menu
1 Problem List Preferred View [GMPL USER VIEW]
2 Problem Look-up Defaults ... [GMPL USER LOOK-UP DEFAULTS]
3 Preferred Problem Selection List [GMPL USER LIST]

Options

GMPL CLINICAL USER Patient Problem List
This option allows clinical users access to the Problem List application; control is
passed to the List Manager utility.

GMPL DATA ENTRY Problem List Data Entry
This option allows data entry/maintenance access to the Problem List application;
the List Manager utility is invoked here.

GMPL USER VIEW Problem List Preferred View
This option allows an individual user to define his/her own default view of
patient problem lists. Rather than displaying all active problems for a patient, the
application will show active problems associated with only selected services or
clinics, as defined here. A user may choose to see a different view of the
problem list from within the application by selecting the "Change View" action,
including all problems.

GMPL PATIENT LISTING List Patients with Problem List data
This option will generate a listing of all patients having data in the Problem file
#9000011.

GMPL PROBLEM LISTING Search for Patients having selected
Problem
This option will generate a listing of all patients identified as having a particular
problem in the Problem file #9000011; the user is first prompted for the problem,
then the file is searched for patients having this problem.
GMPL BUILD SELECTION LIST

Build Problem Selection List(s)

This option allows access to utilities to facilitate the creation and maintenance of problem menus, i.e. lists of commonly selected problems. Categories of problems may be defined, and lists created from linking categories together; categories may be reused in multiple lists.

GMPL ASSIGN LIST

Assign Selection List to User(s)

This option allows a selection list to be assigned to user(s) as his/her preferred menu of problems to select from. If a list is specified in the Problem List Default Menu field (#125.1) of the New Person file, then the Add New Problem(s) option will present this list of problems to select from; searching the Lexicon Utility for a problem not on this list is always an option from these menus.

GMPL BUILD ENC FORM LIST

Copy Selection List from IB Encounter Form

This option will allow creating a new selection list by copying a list already created through the Encounter Form utility (Integrated Billing package) into a new entry in file #125. This list will then be available for editing further (only the new list will be altered - the list saved in the Integrated Billing pkg with the form will not be changed here), or for use to select from when entering new problems to a patient's list.

GMPL CODE LIST

Assign ICD Diagnoses to Problem List

This option allows access to a patient's problem list to add, review, or edit the ICD Code assigned to each problem. A detailed display of problem data is available, as well as searching capability into both the ICD Diagnosis file and the Lexicon Utility to facilitate the coding process.

GMPL DELETE LIST

Delete Problem Selection List

This option will allow the user to delete a problem selection list and its contents that is no longer in use. Once a list is selected, the New Person file, "Problem Selection List" field, for pointers to the chosen list; if any users are found, deleting the list is not permitted.

GMPL REPLACE PROBLEMS

Replace Removed Problem(s) on Patient's List

This option will allow the user to list all of the problems that have been removed from a selected patient's problem list, and optionally place any of them back on the problem list.

GMPL DE-ASSIGN LIST

Remove Selection List from User(s)

This option allows a selection list to be removed from user(s) as his/her preferred menu of problems to select from. The Add New Problem(s) option will no longer automatically present this menu for the selected user(s) to choose from.

GMPL USER LOOK-UP FILTER

Filter

This option lets the user either select or create a filter to use while searching the Lexicon.

GMPL USER LOOK-UP DISPLAY

Display
This option lets the user either select or create a display format to be used in presenting the selection list during search of the Lexicon.

**GMPL USER LOOK-UP VOCABULARY**  **Vocabulary**
This option lets the user select a default vocabulary (subset) of the Lexicon to be used during searches (i.e., Nursing, Social Work, etc.).

**GMPL USER LOOK-UP SHORTCUTS**  **Shortcuts**
This options lets the user select default set of shortcuts to use to rapidly access the Lexicon without conducting an extensive word search.

**GMPL USER LOOK-UP LIST**  **List Current Defaults**
This option lets a user list their current look-up defaults to a device (terminal or printer).

**GMPL USER LIST**  **Preferred Problem Selection List**
This option allows an individual user to define his/her own default list of commonly selected problems; this list will be displayed when the action 'Add New Problem(s)' is invoked, and the user may either choose to add a problem from the menu (selected by display number) or search the Lexicon for a problem not listed. The same prompts will asked per problem to complete the entry.

**GMPL NTRT FOLLOWUP REPORT**
This report allows sites to evaluate problems with valid SNOMED CT Concept codes, which were unmapped to ICD at the time of entry.

The report may be filtered by Medical Center Division, Provider(s), and Time Interval.

**GMPL FREETEXT FOLLOWUP REPORT**
This report allows sites to evaluate uncoded freetext problems that have been entered by one or more providers over a specified time interval.

**GMPL DIAG ERROR REPORT**  **SNOMED in Diagnosis Field Error Report**
This report goes back to the last Problem file cleanup runtime. This report allows sites to identify any occurrences where SNOMED codes have been saved in the Diagnosis field #.01 where an ICD code should be.

**GMPL DIAG CLEANUP REPORT**  **SNOMED in Diagnosis Field Cleanup Report**
This report goes back to the last Problem file cleanup runtime. This report allows sites to identify any corrections where SNOMED codes in the Diagnosis field #.01 were corrected to ICD codes.

**GMPL GENERATE DIAG RPTS**  **Generate SNOMED in Diagnosis Field Err/Cleanup Report**
This option allows a user to rerun the file scan and cleanup tasks for any potential new errors.
**Protocols**

**GMPL ANNOTATE** Comment on a Problem
This action will append a brief comment(s) to a problem entry, up to 200 characters in length.

**GMPL CODE ICD SEARCH** Search ICD Diagnoses for Codes
This option allows the user to search the ICD Diagnosis file for the selected problem's text; for this option it is recommended that the Multi-Term Lookup utility be setup to operate on this file (#80).

**GMPL CODE LIST** Problem List ICD Codes
This menu uses the List Manager utility to display all of a patient's problems with data relevant to a billing clerk/coder. Only the ICD code may be edited, but a detailed display of all information stored about a problem is available to facilitate the assignment of a code.

**GMPL DATA ENTRY** Problem List Data Entry
This menu uses the List Manager utility to display a patient's problem list with data relevant to the needs of a clinic or billing clerk. Various actions may be taken here such as adding, removing, editing, and printing problems.
GMPL DELETE    Remove Problems
This action will remove an entry from a patient's problem list; the problem is not
physically deleted from the file, but flagged as "removed" and, except for
historical purposes, generally ignored.

GMPL DETAILED DISPLAY    Detailed Display
This action will present an expanded display of each problem selected from the
patient's problem list. All available information will be shown, including
comments by all authors and an audit trail of changes made to the problem.

GMPL DT CONTINUE    Continue to Next Selected Problem
If multiple problems were selected for review under the "Detailed Display"
action, this will allow retrieval of the data from the next problem of those
selected.

GMPL DT MENU    Detailed Display
This menu contains actions available for navigating the problems selected to
review in the "Detailed Display" action. The user may go on to the next selected
problem when finished reviewing, or exit and return to the problem list.

GMPL EDIT ICD    ICD Code
This action allows a user with the GMPL ICD CODE key to assign a [new] ICD
Code to a problem.

GMPL EDIT MENU    Edit Problem Values
This protocol is for use with the List Manager utility, to display the current
editable values of the selected problem entry in a list format for editing.

GMPL EDIT NEW NOTE    Append a new note to problem
This action will allow appending additional comment(s) to the currently selected
problem.

GMPL EDIT NOTES    Edit Existing Note(s)
This action will allow editing of comments that have previously been appended
to a problem entry. Notes will be displayed for editing only if the current user is
the author of the note; accessing this action through the Manager's Menu will set
a flag allowing all notes for the current problem to be displayed and edited.

GMPL EDIT ONSET    Onset
This action allows the entry/editing of the date of onset of a problem.

GMPL EDIT PROBLEM    Edit a Problem
This option allows editing of select fields of a problem entry; all changes made to
a patient's problem are recorded in the Problem Audit file. A problem is selected,
and control is transferred to the List Manager and GMPL EDIT MENU protocol.

GMPL EDIT PROVIDER    Primary Provider
This action allows the entry/editing of the primary provider of care for this
problem.

GMPL EDIT RECORDED    Date Recorded
This action allows editing of the date the problem was originally recorded; date will default to NOW when entering a new problem, but may be changed to an earlier date to reflect entry in the paper chart.

**GMPL EDIT REFORMULATE**  
Reformulate Problem Description  
This action allows limited reformulation of the current problem. If new problem text is entered, the narrative is passed to the Lexicon Utility to find a match; both the user's narrative and the new Clinical term will be stored, as with a new problem entry. If the new problem selected from the LU is already an entry on the patient's list, the user will be alerted.

**GMPL EDIT REMOVE**  
Remove Problem from List  
This action will remove the current entry from the patient's list; the problem is not physically deleted from the file, but flagged as "removed" and, except for historical purposes, generally ignored. The user is then returned to the entire problem list.

**GMPL EDIT SAVE**  
Save Changes and Exit  
This action allows the user to save any changes made to the current problem, and return to the entire problem list. If this action is not selected and the problem has been changed, the user will be asked when exiting if s/he wishes to save the changes.

**GMPL EDIT SC**  
Service Connection  
This action allows editing the service connection status of the current problem; if the service connection of this problem was previously unknown, it may be entered here. Data will only be asked for if the patient has service connection indicated in the Patient file. MCCR will be using this data for billing purposes.

**GMPL EDIT SERVICE**  
Service or Clinic  
This action allows the entry/editing of the service primarily responsible for the care of this problem. This data will be used for screening and grouping the problems displayed in the user's selected view of the list.

**GMPL EDIT SP**  
Special Exposure  
This action allows editing the special exposures associated with the current problem; if exposures related to this problem were previously unknown, it may be entered here. Data will only be asked for if the patient is indicated for Agent Orange, Ionizing Radiation, or Persian Gulf exposures in the Patient file. MCCR will be using this data for billing.

**GMPL EDIT STATUS**  
Status  
This action allows editing the status assigned to a problem; if the problem is inactivated, the user will be asked for Date Resolved also.

**GMPL EDIT VERIFY**  
Verify  
If the parameter "Verify Transcribed Problems" is turned on in the Problem List Site Parameters file (#125.99), this action will allow a clinician to mark the current problem as verified. A "$" will appear immediately in front of the problem text if the current problem was transcribed in by a clerk and the above described parameter is on; entering a "$" at the "Select Item" prompt will invoke
this action.

GMPL HIDDEN MENU Problem List Hidden Actions
This menu contains the List Manager functions relevant to the operation of the Problem List application; it is accessible from any "Select Action" prompt by entering "??".

GMPL INACTIVATE Inactivate Problems
This action allows a problem to be inactivated.

GMPL LIST CLU Add a Problem not on the Menu
This action will allow selection of a problem not listed in the displayed menu, to be added to the current patient's problem list. The code invoked here is the same as for the regular 'Add' action, possibly allowing a look-up into the Clinical Lexicon Utility.

GMPL LIST MENU List Commonly Seen Problems
This protocol is for use with the List Manager utility, to display the user's preferred list of commonly seen problems to facilitate selection and addition to the patient's problem list.

GMPL LIST SELECT ITEM Select Item from Menu
This action will allow selection of a problem listed in the displayed menu, to be added to the current patient's problem list. The same prompts will be stepped through for each problem selected as if it had been entered through the regular 'Add' action. If the item selected is a category heading, the list will be expanded to include all the problems included in that category for selection.

GMPL MENU ADD GROUP Add Category to List
This action allows adding one or more problem categories to a selection list.

GMPL MENU ADD PROBLEM Add Problems to Category
This action allows adding one or more problems to a problem category.

GMPL MENU ASSIGN LIST Assign List
This action allows the user to assign this list to a clinic or to user(s). Linking a list to a clinic will invoke the list whenever a user selects that clinic as the location where the patient was seen, when adding new problems. If a list is linked to a user, this is the list that will always be invoked when that user is adding new problems, regardless of the clinic specified that the patient was seen in.

GMPL MENU BUILD GROUP Build Problem Categories
This menu allows the creation of categories of problems, to facilitate selecting a new problem to add to a patient's problem list. Categories may then be linked together to form lists, in which they may be ordered and titled. Categories may be reused in multiple lists, as well.

GMPL MENU BUILD LIST Build Problem Selection List
This menu allows the creation of lists of problems, to facilitate selecting a new problem to add to a patient's problem list. Problems are added or removed in
categories, which may also be ordered or titled for clarity.

**GMPL MENU CREATE GROUP** Enter/Edit Category
This action transfers control to the List Manager utility, to bring up a new screen allowing the entry/editing of any problem category. The user will be asked for the category s/he wishes to review and edit, and a screen similar to the 'Build List' menu will be shown allowing similar actions to edit the contents of the selected category. A new category may be entered here, which will be available to add to the current list upon return to the 'Build List' screen when finished.

**GMPL MENU DELETE GROUP** Delete Category
This action allows the user to delete a problem category; it will be completely removed from the Problem Selection Category file, if no list currently contains it.

**GMPL MENU EDIT GROUP DISPLAY** Edit Category Display
This action allows the user to change the text that appears as the subheader of a category of problems, and whether or not to display the problems in the category automatically on entry to the list.

**GMPL MENU EDIT PROBLEM** Edit Problems
This action allows the user to edit the problem and its associated code; if no code is currently assigned to the problem, one may be entered.

**GMPL MENU NEW GROUP** Change Categories
This action allows the user to switch to editing a new problem category.

**GMPL MENU NEW LIST** Change Selection Lists
This action allows the user to switch to editing a new problem selection list.

**GMPL MENU REMOVE GROUP** Remove Category from List
This action allows the user to remove a problem category from the current list; it remains in the Problem Selection Category file for future use.

**GMPL MENU REMOVE PROBLEM** Remove Problem from Category
This action allows the user to remove a problem from the current category.

**GMPL MENU RESEQUENCE GROUPS** Resequence Categories
This action allows the user to place the problem categories on the current list in a different order; problems will be automatically renumbered.

**GMPL MENU RESEQUENCE PROBLEMS** Resequence Problems
This action allows the user to place the problems in the current category in a different order; problems will be automatically renumbered for display and selection purposes.

**GMPL MENU SAVE GROUP** Save Category and Quit
This action allows the user to save any changes that have been made to the current category and exit the utility.

**GMPL MENU SAVE LIST** Save List and Quit
This action allows the user to save any changes that have been made to the current list and exit the utility.
GMPL MENU VIEW GROUP View w/wo Seq Numbers
This action allows the user to toggle between displaying the sequence numbers assigned to each problem for ordering, or the display numbers only.

GMPL MENU VIEW LIST View w/wo Seq Numbers
This action allows the user to toggle between displaying the sequence numbers assigned to each category for ordering, or the display numbers only.

GMPL NEW PROBLEM Add New Problems
This action will allow the addition of a new entry to a patient's problem list. The user will be asked to select a term from the Clinical Lexicon Utility describing the problem, and to enter other relevant information.

GMPL OE DATA ENTRY Patient Problem List
This action will allow entry to the Problem List application from the OE/RR Ward Clerk menu. The variable ORVP is checked for the current patient, and then control is passed to the PL.

GMPL OE PROBLEM LIST Patient Problem List
This action will allow entry to the Problem List application from the OE/RR Clinician and Nurse menus. The variable ORVP is checked for the current patient, and then control is passed to the PL.

GMPL PATIENT Select New Patient
This allows selection of a new patient from within the Problem List application; a new list will be generated and displayed for review.

GMPL PRINT Print Problem List
This action allows printing a copy of the problem list, either the currently displayed view (which may be abbreviated) or the complete list in chartable format.

GMPL PRINT LIST Print Problem List
This action will generate a complete listing of the patient's problem list in chartable format. Active and inactive problems will appear here in this listing.

GMPL PROBLEM LIST Problem List
This menu uses the List Manager utility to display a patient's problem list with data relevant to the needs of a clinician. Various actions may be taken here such as adding, removing, editing, inactivating, and appending comments; the user may also see a detailed display of selected problem(s) or change which problems appear on the displayed view of the list. A new patient's list may be selected or a printout of the list generated.

GMPL UP ADD ITEM Add Items to View
This action allows the user to include additional service(s) in his/her preferred view of patient problem lists.

GMPL UP DELETE VIEW Delete Preferred View & Exit
This action allows the user to delete his/her preferred view and exit the utility. The user will again see all active problems, when initially displaying a patient's
problem list.

**GMPL UP REMOVE ITEM**  
Remove Items from View  
This action allows the user to remove service(s) from his/her preferred view of patient problem lists.

**GMPL UP SAVE VIEW**  
Save Preferred View & Exit  
This action allows the user to save any changes made to his/her preferred view of patient problem lists; control is passed back to the User Preferences menu.

**GMPL UP SWITCH**  
Select New View of Problems  
This action allows the user to switch to a different preferred view. If one is currently editing a service view of problem lists, this action will clear the current view and bring up a list of clinics from which to select a view, and vice-versa from clinic to service list. NOTE: Each user may have only ONE preferred view at a time!

**GMPL USER PREFS**  
Preferred View of Problem List  
This menu contains actions allowing a user to change his/her preferred view of patient problem lists. A set of services may be defined here that will be used as a default screen when displaying patient problem lists for this user; the view may be changed dynamically within the Problem List application through the "Change View" action, but it will not be stored as a new default unless updated here.

**GMPL VERIFY**  
Verify Problems  
If the parameter "Verify Transcribed Problems" is turned on in the Problem List Site Parameters file (#125.99), this action will allow a clinician to mark the selected problem(s) as verified. A "$" will appear immediately in front of the problem text for problems that were transcribed in by a clerk and the above described parameter is on; entering a "$" at the "Select Action" prompt will invoke this action.

**GMPL VIEW**  
Select View of List  
This allows the user to change the problems displayed onscreen in the patient's list, on-the-fly. Various attributes are presented for selection such as status, provider, and clinic (or service if the patient is currently admitted).

**GMPL VIEW ACTIVE**  
Active only  
This action will screen the problems from the current patient's list for only those that are currently active.

**GMPL VIEW ALL CLIN**  
All Clinics  
This action will remove any current screen on clinics associated with problems, and include problems being followed by all clinics.

**GMPL VIEW ALL PROV**  
All Providers  
This action will remove any current screen on primary providers of care for problems, and include problems being treated by all providers.

**GMPL VIEW ALL SERV**  
All Services  
This action will remove any current screen on services associated with problems,
and include problems being treated by all services.

**GMPL VIEW BOTH**  
*Active & Inactive*  
This action will remove any current screen on problem status and include problems that are both active and inactive on the display.

**GMPL VIEW CLINIC**  
*Selected Clinic(s)*  
This action will screen the problems from the current patient's list for only those associated with the selected clinic(s) for care.

**GMPL VIEW INACTIVE**  
*Inactive only*  
This action will screen the problems from the current patient's list for only those that are currently inactive.

**GMPL VIEW INCLUDE INACTIVE**  
*Show All Problems*  
This action will include problems that are both active and inactive on the list of problems displayed; active problems will appear first, followed by the inactive problems.

**GMPL VIEW INPAT**  
*Inpatient View Menu*  
This menu contains actions allowing the user to change his/her current view of the patient's problem list. The problems displayed onscreen may be changed by selecting the status, service, and/or provider from which the user wishes to see problems listed. The number of problems listed and the total number of problems will be shown in the upper right-hand corner of the screen.

**GMPL VIEW OUTPAT**  
*Outpatient View Menu*  
This menu contains actions allowing the user to change his/her current view of the patient's problem list. The problems displayed onscreen may be changed by selecting the status, clinic, and/or provider from which the user wishes to see problems listed. The number of problems listed and the total number of problems will be shown in the upper right-hand corner of the screen.

**GMPL VIEW PROVIDER**  
*Selected Provider*  
This action will screen the problems from the current patient's list for only those listed as being treated by the selected provider.

**GMPL VIEW RESTORE**  
*Preferred View*  
This action will replace the currently specified view with the user's pre-defined preferred view.

**GMPL VIEW SERVICE**  
*Selected Service(s)*  
This action will screen the problems from the current patient's list for only those associated with the selected service(s) for care.

**GMPL VIEW SWITCH**  
*Inpatient View*  
This action will allow the user to switch from displaying the problems in an outpatient mode to an inpatient mode, or vice-versa. If clinic information is currently being displayed, service and provider will now be displayed after selecting this action; likewise, if service and provider information are currently displayed, clinic will now be shown.
Package-Wide Variables

Patient Variables

GMTSAGTOR  Flag; if patient was exposed to Agent Orange,  
1 = Y, 0 = N

GMPDFN  Holds pointer to the current patient, = pointer ^ patient name

GMPGULF  Flag; if patient was in the Persian Gulf and exposed to environmental contaminants, 1 = Y, 0 = N

GMPHNC  Flag; if patient is diagnosed with Head and/or Neck Cancer from exposure to Nose or Throat Radium treatments, 1 = Y, 0 = N

GMPION  Flag; if patient was exposed to ionizing radiation,  
1 = Y, 0 = N

GMPMST  Flag; if patient was victim to Military Sexual Trauma,  
1 = Y, 0 = N

GMPSC  Flag; patient is service connected or not (PIMMS),  
1 = service connected, 0 = not service connected.

Current View of List Variables

GMPLVIEW("ACT")  Status of the currently displayed view of the Problem List,  
= A if active only, I if inactive only, and "" (null) if all problems are included.

GMPLVIEW("CLIN")  Contains all of the clinics included in the currently displayed view of the list, as pointers to the Hospital Location file (#44) in the form of “ptr/ptr/ptr...” or “” (null) if all are included.

GMPLVIEW("PROV")  Provider of the currently displayed list,  
= ptr (file #200) ^ Name, or 0 if all providers

GMPLVIEW("SERV")  Contains all of the Services included in the currently displayed view of the list, as pointers to the Service/Section file (#49) in the form of “ptr/ptr/ptr...” or “” (null) if all are included.
Site Parameter Variables

GMPARAM(“CLU”)  Flag; based on parameter, to allow user to search the Lexicon Utility for a problem.

GMPARAM(“PRT”)  Flag; based on parameter, to prompt for a new printout.

GMPARAM(“REV”)  Flag; based on parameter, determine if list will display in chronological or reverse chronological order by date recorded.

GMPARAM(“VER”)  Flag; transcribed problems flagged for verification (based on parameter) 1 = Yes, 0 = No

Other Variables

GMPCOUNT  Total number of problems in currently displayed list

GMPLUSER  Flag; if user entered package through clinical or data entry interface = $D if clinical, ‘$D if clerical

GMPART  Flag; if patient’s list has changed during user’s session, need to print new problem list.

GMPROV  Requesting Provider of action on Problem List defaults to current user (DUZ) if clinician = ptr (to #200) ^ Name

GMPVA  Flag; if site is a VAMC (1) or non-VA (0). Set based on DUZ(“AG”)

GMPVAMC  User’s station/facility = DUZ(2) = ptr to Institution file (#4)
How to Generate On-Line Documentation

Routines

To get a list or printout of any or all of the Problem List routines, use the Kernel option XUPRROU (List Routines). This option is on the XUPR-ROUTINE-TOOLS menu on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

To get a list of all Problem List routines, type GMPL* after you are prompted for routines.

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (First Line Routine Print) to get a list of just the first line of each Problem List routine.

Globals

The globals exported by Problem List are ^GMPL( and ^AUPNPROB(. To get a printout of these global, use the Kernel option XUPRGL (List Global) on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

Files/Data Dictionary

The number-spaces for Problem List files are 125 to 125.99. Use the VA Fileman option DILIST (List File Attributes) to get a list of these files. Depending on the Fileman template used to print the list, this option will print out all or part of the data dictionary for the Problem List files.

Menus/Options

The menus and options exported by the Problem List package all begin with the GMPL name space. You can view individual options by using the Kernel option XUINQUIRE (Inquire). This option is on the menu XUMAINT (Menu Management), which is a sub-menu of the EVE (Systems Manager Menu) option.

You can produce a diagram of the structure of the Problem List menus and their options with the Kernel option XQDIAGMENU (Diagram Menus). Choosing XQDIAGMENU allows you to further select XUUSERACC for a diagram of the menus, XUUSERACC1 for a detailed diagram of the menus with entry and exit actions, or XUUSERACC2 for an abbreviated diagram of the menu and options.
XINDEX

XINDEX is a routine that produces a report called the VA Cross-Referencer, a technical and cross-reference listing of one routine or a group of routines. XINDEX provides a summary of errors and warnings for routines that do not comply with VA programming standards and conventions, a list of local and global variables and what sub-routine they are referenced in, and a listing of internal and external references (both routine calls and global references).

When prompted to select routines, select GMPL* for Problem List application routines. You can de-select the Problem initialization routines by selecting -GMPLI* and -GMPLO*. 
# Glossary

The OIT Master Glossary is available at:  
http://vaww.oed.wss.va.gov/process/Library/master_glossary/masterglossary.htm

National Acronym Directory:  
http://vaww1.va.gov/Acronyms/

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>A functional process a user takes within the Problem List option that affects the end result or what is actually accomplished by the option. <strong>Examples:</strong> Edit a problem, print a problem, list, add a comment to a problem.</td>
</tr>
<tr>
<td>Audit</td>
<td>A feature that provides an ongoing chronological listing of who made what changes to the Problem List.</td>
</tr>
<tr>
<td>Clinical Term</td>
<td>Names used for problems, diagnosis, procedures, etc.</td>
</tr>
<tr>
<td>Clinician</td>
<td>A doctor or other health care provider in the medical center who is authorized to enter problems onto a patient’s chart.</td>
</tr>
<tr>
<td>CPRS</td>
<td>Computerized Patient Record System is an umbrella term used to refer to clinical packages accessed by health care providers, to include Adverse Reaction Tracking System, Clinical Reminders, Consults/Request Tracking, Health Summary, Order Entry/Results Reporting, <strong>Problem List</strong>, and Text Integration Utility.</td>
</tr>
<tr>
<td>CPT</td>
<td>Clinical Procedures Terminology is a coding and classification system for procedures used for billing purposes, and published by the American Medical Association.</td>
</tr>
<tr>
<td>Data Dictionary</td>
<td>This is a file that defines a file's structure, to include a file's fields and relationship to other files. This is sometimes called schema.</td>
</tr>
<tr>
<td>DSM-IVR</td>
<td>Diagnostic and Statistical Manual of Mental Disorders is a coding and classification system used by mental health professionals, and published by the American Psychiatric Association.</td>
</tr>
</tbody>
</table>
| Encounter Form | A paper form (which can be created by a form generator utility) for use with Problem List to print a patient’s problems on, for the clinician to edit and/or add new problems, then used by clerks to
enter new problems and/or edit existing problems.

Health Summary
A VistA clinical module that allows users to compile summaries of a patient’s health care by combining various components of data drawn from other VistA modules such as Laboratory, Pharmacy, Radiology and Problem List.

ICD-9-CM
International Classification of Diseases, 9th Revision, Clinical Modification, is a coding and classification system for diagnostic terms used for billing purposes, and published by the Centers for Medicare and Medicaid Services (CMS), formerly the Health Care Financing Administration (HCFA).

ICD-10-CM
International Classification of Diseases, 10th Revision, Clinical Modification. There is a nationwide mandate by the Centers for Medicare & Medicaid Services (CMS) that all healthcare coding is done using the International Classification of Diseases Tenth Revision (ICD-10) code sets, effective October 1, 2013.

IHS (Indian Health Service)
The Indian Health Service has a computerized system comparable to VistA, called the Resource and Patient Management System (RPMS). Patient Care Component (PCC) is a clinical capture module of RPMS that captures outpatient data and contains tools for query and management reports. Problem List uses some of IHS’s files as part of a joint-sharing between federal agencies.

Kernel
Kernel provides the computing environment for VistA software.

Lexicon
A terminology utility developed in conjunction with Problem List that can also be used by other applications; it was originally seeded with terminology from UMLS, and is supplemented by terms used within the VA Health Care System. When adding a problem to the Problem List, a clinician may be asked to select a term from the Lexicon.

MCCR
Medical Care Cost Recovery, a VistA module that contains various data entry methods to be used with clinical modules such as Problem List.

Menu
A particular type of Option or Protocol that leads the user to other Options or Protocols.

MTLU
Multi-Term Look-Up is part of the Kernel Toolkit and is used to by the Lexicon to conduct a “word search” of clinical terminology.
NTRT
New Term Rapid Turnaround (NTRT) is the process to distribute standard reference files to VistA and to HealtheVet environments.

OE/RR
Order Entry/Results Reporting is a module for managing orders (lab, radiology, etc) and reporting back the results of such orders. OE/RR was the predecessor for CPRS.

Option
An option is a part of the menu system that performs a function (action, print, edit, runs a routine, etc.).

PCE
Patient Care Encounter provides methods for capturing encounter data, so that clinicians, management, and Quality Assurance staff can benefit from the data. The PCE package consist of a data capture module, links to VistA ancillary packages, V-files, and a Visit File.

PIMS
The VistA Patient Information Management System (PIMS) package provides a comprehensive range of software supporting the administrative functions of patient registration, admission, discharge, transfer, appointment scheduling, and beneficiary travel. It provides service connection and special condition exposure support to the Problem List.

Problem
The term that the clinician gives to a patient’s complaint or diagnosis.

Progress Note
A VistA module, as well as a non-computerized form for maintaining text about a patient’s conditions. The Text Integration Utility (TIU) provides the support for storing and retrieving the Progress Notes, and for the management of the notes.

Protocol
Similar to an option, a protocol contains the actions and methods required for accomplishing an order and orderables within List Manager versions of CPRS, Problem List, and other applications. Once invoked, it will lead a user through a process to complete the order.

Remote Procedure Call
A Remote Procedure Call (RPC) is a procedure invoked by a client workstation to be executed by the server and the results will be returned to the client application. RPCs are used to move Problem List data between the server and CPRS GUI.

Remote Data View
Remote Data View is the ability to view Problem List on a
patient from the patient record at a remote treating facility by using Health Summary Problem List components. This is only available after patches OR*3*85 and GMTS*2.7*29.

Security Key
Security Keys define the characteristic(s), authorization(s), or privilege(s) of the person exercising the Problem List.

SNOMED
SNOMED/CT
Systematic Nomenclature of Medicine, a coding and classification system, mostly used by the Anatomic Pathology module of Laboratory, and published by the American College of Pathologists.

TIU
The Text Integration Utility is a VistA module designed to manage the capture, retention, retrieval and processing of any patient-visit-oriented document (i.e., Discharge Summaries, Progress Notes, Consult Results, etc.).

UMLS
Unified Medical Language System, published by the National Institute of Health (NIH), National Library of Medicine (NLM).

Unwinder
The Unwinder is part of the Kernel VistA module. It allows hierarchical traversing of menus (as found in Menu Management) and the structuring of order protocols into reusable modules.

VA Fileman
VA FileMan is a database management system that maintains the data dictionary and provides utilities for input and output of data.