



**IHS RPMS
PCC Health Summary System
Version 2.0
(APCH)**

Installation Guide and Release Notes

July 1997

Indian Health Service
Resource and Patient Management System (RPMS)

**IHS RPMS
PCC Health Summary System
(APCH)
Version 2.0**

Installation Guide and Release Notes

July 1997

Information Systems Division
Tucson, Arizona
Developer: Lori Butcher (520) 295-2535 lori@tucson.ihs.gov

Table of Contents

Release Notes	1
New Health Summary Components	1
Modified Health Summary Components	1
New Options Available	2
Other Modifications	2
New Health Maintenance Reminders	2
Modifications to Standard Health Summary Types	2
Installation Instructions	3
Sample Installation Session	5

Release Notes

Listed below are the enhancements and changes that have been made to the Health Summary package for version 2.0. Please share this information with all staff members who currently use the Health Summary package.

New Health Summary Components

- ◆ **Referred Care.** The Referred Care component displays information about a patient's referrals to other facilities. This information is obtained from the RPMS Referred Care Information System (RCIS). For each referral, the purpose of the referral, the facility referred to, the dates of services, and several other data items from the RCIS are displayed.
- ◆ **In-Hospital.** This component displays all visits with a service category of I (In-Hospital).
- ◆ **CHR.** The CHR component displays information gathered by the CHRs and entered into the IHS RPMS CHR Reporting System. Information on each patient contact by a CHR is detailed in the component.
- ◆ **Skin Test - Last 3 of Each.** This component is similar to the Skin Test component, but only the last 3 of each type of skin test are displayed.
- ◆ **History of Minor Procedures.** The History of Minor Procedures component displays all of a patient's minor procedures that are screened out of the History of Procedures component. The minor operation/ procedure codes include all codes in the 23, 24, and 85 series and code 69.7.
- ◆ **Outpatient/Field Visits (Screened).** This component allows a facility or user to screen visits by a particular provider discipline as the primary provider or all visits to a particular clinic; for example, you could use this component to display all outpatient/field visits except Pharmacy Clinic visits.
- ◆ **Supplement.** A programmer-developed supplement can be printed with a health summary using this component. Two supplements are distributed with this version: the Women's Health Profile and the Diabetes Care Summary.
- ◆ **Public Health Nursing.** This component will list all visits for which a PHN was the primary provider. The PHN component displays all items captured on the Public Health Nursing PCC Form.
- ◆ **MEDS - Most Recent by Group.** This component provides another means of displaying medications. The list of medications is grouped by Chronic and Non-chronic.
- ◆ **MEDS - Most Recent Short Form.** This component is exactly the same as the MEDS - Most Recent by Group except that it displays the medication in a condensed format.

Modified Health Summary Components

- ◆ **Demographic.** The name of the patient's father has been added and the entire component display modified for easier readability. Age has also been added.
- ◆ **Insurance Information.** This component now displays Railroad Retirement eligibility.
- ◆ **Lab Component.** A display of the latest EKG has been added.
- ◆ **Radiology.** The impression now displays in this component to the extent it has been entered into the database.
- ◆ **Allergy.** The Allergy component has been modified to display data as follows:
If the problem list contains a problem with a code 799.9, and NKA or No Known Allergy is contained in the problem narrative, the following notation is displayed: No Allergy Noted on (date). If no allergies have been recorded on the problem list, then the following message appears: None Recorded. If an allergy has been entered on the problem list, then the provider narrative associated with that problem will display.
- ◆ **Medications.** This component now accommodates the display of outside RXs.
- ◆ **Eye Care.** The Eye Care component (previously named Eyeglass Prescription) has been changed to meet specifications identified by the Eye Care PSG. Visual measurements have been added.
- ◆ **History of Surgery.** The operating provider now displays in the History of Surgery component.

New Options Available

- ◆ **Browse Health Summary.** This new menu option provides the ability to browse a health summary on the CRT. It allows the user to review the display backward and forward, search the health summary for a string of data, or print the summary. Providers should be given access to this option.
- ◆ **Health Summary Displaying Case Registers.** This option allows a user to review the registers of which the patient is a member and then enter the specific type of health summary to print. The user is better able to select the most appropriate type of health summary to print for the patient.

Other Modifications

- ◆ Components have been renamed to more accurately reflect the information displayed.
- ◆ The Problem Notes display has been modified for easier readability.
- ◆ The Multiple Health Summaries option allows a left square bracket followed by a question mark ([?) to be entered at the initial prompt in order to display a list of the user's templates.
- ◆ The initials of the individual printing a health summary appear in the heading on each page.
- ◆ In the Health Maintenance Reminders component, the DUE NOW prompt has been changed to MAY BE DUE NOW.
- ◆ The field for entering alternate component titles has been expanded to allow up to 60 characters to display.
- ◆ A programmer's EOJ entry has been created for users who call the health summary's PEP and need to clean up variables.
- ◆ A new functionality for printing a supplement sheet with the health summary has been added. A Diabetes Care Summary and a Women's Health Profile supplement are distributed with the package.
- ◆ The Most Recent Lab component now displays the lab tests grouped by panel. It also displays the units and reference range.
- ◆ In several of the medication components you can now choose to display a long or short sig for specific health summary types.

New Health Maintenance Reminders

- ◆ DM Cholesterol
- ◆ DM Creatinine
- ◆ DM Dental Exam
- ◆ DM Eye Exam
- ◆ DM Foot Exam
- ◆ DM Triglyceride
- ◆ Influenza
- ◆ Physical Exam
- ◆ Review of Alcohol Use
- ◆ Review of Tobacco Use
- ◆ TD-Adult
- ◆ Fecal Occult Blood
- ◆ Cholesterol

Modifications to Standard Health Summary Types

- ◆ **Adult Regular.** Added In-Hospital Stays, Referred Care, exams and Treatments Provided components. Added 10 new surveillance items to the Health Maintenance Reminders component.
- ◆ **Pediatrics.** Added In-Hospital Stays, Referred Care, and Treatments Provided components. Added new surveillance items to the Health Maintenance Reminders component.
- ◆ **Dental.** Added the Referred Care component.
- ◆ **Mental Health/Social Services.** Added the Referred Care and In-Hospital Visits components.
- ◆ **Diabetes Standard.** Added the Referred Care component and new surveillance items to the Health Maintenance Reminders component.

Installation Instructions

INSTALLATION NOTES FOR HEALTH SUMMARY VERSION 2.0

=====

PREFIX: APCH

CURRENT VERSION: 2.0

=====

***** NOTE ***** NOTE *****

READ THE ENTIRE NOTES FILE PRIOR TO ATTEMPTING ANY INSTALLATION

***** NOTE ***** NOTE *****

1. GENERAL INFORMATION

- a) Make a copy of this distribution for off-line storage.
- b) Print all notes/readme files.
- c) It is recommended that the terminal output during the installation be captured using an auxport printer attached to the terminal at which you are performing the software installation. This will insure a printed audit trail if any problems should arise.

2. CONTENTS OF DISTRIBUTION

- a) apch0200.r - Routines
- b) apch0200.g - Globals
- c) apch020i.pdf - Installation Guide
- d) apch020t.pdf - Technical Guide
- e) apch020u.pdf - User's Guide

3. REQUIREMENTS

- Kernel 8.0 or higher
- FileMan 21 or higher
- PCC Management Reports Version 3.0
- Taxonomy System Version 5.1
- XB/ZIB Utilities Version 3.0

4. INSTALLATION INSTRUCTIONS

In all UCI's running the IHS Health Summary Package:

1. Ensure that users are unable to generate health summaries for the duration of this installation. Installation takes approximately 10 minutes.
2. Save all routines (^%RS) and globals (^%GS) in the APCH* namespace for use in returning to your existing version, in case of emergency.
3. Delete all routines (^%RDEL) in the APCH namespace.

4. NOTE: This step involves killing several globals. It may be necessary to allow kill of these globals by doing the following:
D ^%GCH
Select globals
-- Select option 5 - Allow/Prevent KILL
-- Answer NO to Prevent KILL of Entire Global

Use ^%GDEL to delete or use the kill command to delete the following globals:

^APCHTMP
^APCHSCMP
^APCHSFLI
^APCHSPER
^APCHSURV
^APCHSUP

5. Do a routine restore (^%RR) from file apch0200.r
There should be 102 routines restored.
6. Do a global restore (^%GR) from file apch0200.g
There should be 6 globals restored.
7. D ^APCHINIT (answer yes to all questions).
8. Re-enable health summary generation.
9. Add the following new options to the APCCUSER menu option and other appropriate provider menus:
[APCHSUMR] Health Summary Displaying CMS Register(s)
[APCHSBRW] Browse Health Summary

5. POINT OF CONTACT

Lori Butcher
OHPRD-ISD
7900 S J Stock Road
Tucson, AZ 85746
(520) 295-2535

Sample Installation Session[CLN,DEV]> **D ^XUP****Make sure environment is set up.**

Setting up programmer environment
Access Code:

Terminal Type set to: C-VT100
Select OPTION NAME:

[CLN,DEV]>**D P^DI****Make sure environment is set up.**

VA FileMan 21.0

Select OPTION:

[CLN,DEV]>**ZW DUZ**

DUZ=2

DUZ(0)="@"

DUZ(1)=""

DUZ(2)="4585"

DUZ("AG")="I"

DUZ(2) should be set to @.[CLN,DEV]>**D ^%RS**

MSM - Routine Save Utility
12-NOV-96 11:25 AM

Enter output device <HFS>: Host File Server

File Name >: **apchsavr.1112**

Enter size of save medium (if applicable):

Enter comment for dump header : **SAVE OF HS ROUTINES**Routine selector: **APCH***

112 routines selected.

Routine selector:

Saving ...

APCHCOMM APCHI001 APCHI002 APCHI003 APCHI004 APCHI005 APCHI006 APCHI007
 APCHI008 APCHI009 APCHI00A APCHI00B APCHI00C APCHI00D APCHI00E APCHI00F
 APCHI00G APCHI00H APCHI00I APCHI00J APCHI00K APCHI00L APCHI00M APCHI00N
 APCHI00O APCHI00P APCHI00Q APCHI00R APCHI00S APCHI00T APCHI00U APCHI00V
 APCHI00W APCHI00X APCHI00Y APCHI00Z APCHI010 APCHI011 APCHI012 APCHI013
 APCHI014 APCHI015 APCHINI1 APCHINI2 APCHINI3 APCHINI4 APCHINI5 APCHINIS
 APCHINIT APCHPOST APCHPREI APCHS APCHS0 APCHS1 APCHS10 APCHS11
 APCHS11A APCHS11B APCHS11C APCHS11D APCHS11E APCHS11F APCHS11G APCHS12
 APCHS12A APCHS1A APCHS2 APCHS2A APCHS2A1 APCHS2A2 APCHS2A3 APCHS2B
 APCHS2C APCHS2D APCHS2E APCHS2F APCHS3 APCHS3A APCHS3C APCHS4
 APCHS40 APCHS4A APCHS5 APCHS5A APCHS6 APCHS6A APCHS7 APCHS7N
 APCHS70 APCHS8 APCHS8A APCHS9 APCHSBAN APCHSBRW APCHSDOC APCHSM
 APCHSUTL APCHTX APCHTXA APCHTXB APCHXX APCHXXA APCHXXAA APCHXXAB
 APCHXXB APCHXXBA APCHXXC APCHXXCA APCHXXD APCHXXDA APCHXXE APCHXXEA

Done.

[CLN,DEV]>D ^%GS

MSM - Global Save Utility
12-NOV-96 11:25 AM

Enter output device <HFS>: Host File Server
File Name >: **apchsavg.1112**
Enter size of save medium (if applicable):
Enter comment for dump header : save of hs globals

Global selector: ^**APCH***

8 globals selected.

Global selector: ^

Saving ...

^APCHSCMP
^APCHSCTL
^APCHSFLC
^APCHSFLI
^APCHSMPN
^APCHSPER
^APCHSURV
^APCHTMP

Save complete.
[CLN,DEV]>D ^%RDEL

MSM - Routine Delete Utility
12-NOV-96 11:25 AM

Routine selector: APCH*

112 routines selected.

Routine selector:

Delete Selected Routines? <N> Y

Deleting ...

APCHCOMM	APCHI001	APCHI002	APCHI003	APCHI004	APCHI005	APCHI006	APCHI007
APCHI008	APCHI009	APCHI00A	APCHI00B	APCHI00C	APCHI00D	APCHI00E	APCHI00F
APCHI00G	APCHI00H	APCHI00I	APCHI00J	APCHI00K	APCHI00L	APCHI00M	APCHI00N
APCHI00O	APCHI00P	APCHI00Q	APCHI00R	APCHI00S	APCHI00T	APCHI00U	APCHI00V
APCHI00W	APCHI00X	APCHI00Y	APCHI00Z	APCHI010	APCHI011	APCHINI1	APCHINI2
APCHINI3	APCHINI4	APCHINI5	APCHINIS	APCHINIT	APCHPOST	APCHPREI	APCHS
APCHS0	APCHS1	APCHS10	APCHS11	APCHS11A	APCHS11B	APCHS11C	APCHS11D
APCHS11E	APCHS11F	APCHS11G	APCHS12	APCHS12A	APCHS1A	APCHS2	APCHS2A
APCHS2A1	APCHS2A2	APCHS2A3	APCHS2B	APCHS2C	APCHS2D	APCHS2E	APCHS2F
APCHS2G	APCHS3	APCHS3A	APCHS3C	APCHS4	APCHS40	APCHS4A	APCHS5
APCHS5A	APCHS6	APCHS6A	APCHS7	APCHS71	APCHS72	APCHS7N	APCHS7O
APCHS8	APCHS8A	APCHS9	APCHS9A	APCHS9B1	APCHS9B2	APCHS9B3	APCHSBAN
APCHSBRW	APCHSM	APCHSUTL	APCHTX	APCHTXA	APCHTXB		

[CLN,DEV]>D ^%GDEL

MSM - Global Delete Utility

```

12-NOV-96 11:25 AM
Global selector: ^APCHTMP           This global may or may not exist.

Global selector: ^APCHSCMP

Global selector: ^APCHSFLI

Global selector: ^APCHSPER

Global selector: ^APCHSURV

Global selector: ^APCHSUP           This global may or may not exist.

Global selector: ^

Delete Selected Globals? <N> Y

Deleting ...
^APCHSCMP ^APCHSFLI ^APCHSPER ^APCHSURV ^APCHTMP
[CLN,DEV]>D ^%RR

```

MSM - Routine Restore Utility

```

Enter input device <HFS>: Host File Server
File Name >: apch0200.r
Routine(s) saved at 11:14 AM 12-NOV-96
Header comment is: PCC HEALTH SUMMARY VERSION 2.0 ROUTINES
Selective restore? (allows rename) <N>: NO
Restoring...

```

```

APCHCOMM APCHI001 APCHI002 APCHI003 APCHI004 APCHI005 APCHI006 APCHI007
APCHI008 APCHI009 APCHI00A APCHI00B APCHI00C APCHI00D APCHI00E APCHI00F
APCHI00G APCHI00H APCHI00I APCHI00J APCHI00K APCHI00L APCHI00M APCHI00N
APCHI00O APCHI00P APCHI00Q APCHI00R APCHI00S APCHI00T APCHI00U APCHI00V
APCHI00W APCHI00X APCHI00Y APCHI00Z APCHI010 APCHI011 APCHINI1 APCHINI2
APCHINI3 APCHINI4 APCHINI5 APCHINIS APCHINIT APCHPOST APCHPREI APCHS
APCHS0 APCHS1 APCHS10 APCHS11 APCHS11A APCHS11B APCHS11C APCHS11D
APCHS11E APCHS11F APCHS11G APCHS12 APCHS12A APCHS1A APCHS2 APCHS2A
APCHS2A1 APCHS2A2 APCHS2A3 APCHS2B APCHS2C APCHS2D APCHS2E APCHS2F
APCHS2G APCHS3 APCHS3A APCHS3C APCHS4 APCHS40 APCHS4A APCHS5
APCHS5A APCHS6 APCHS6A APCHS7 APCHS71 APCHS72 APCHS7N APCHS7O
APCHS8 APCHS8A APCHS9 APCHS9A APCHS9B1 APCHS9B2 APCHS9B3 APCHSBAN
APCHSBRW APCHSM APCHSUTL APCHTX APCHTXA APCHTXB

```

102 Routines restored.

```
[CLN,DEV]>D ^%GR
```

MSM - Global Restore Utility

12-NOV-96 11:27 AM

```

Enter input device <HFS>: Host File Server
File Name >: apch0200.g

```

Global(s) saved at 3:20 PM 7-NOV-96.
Header comment is : IHS RPMS PCC HEALTH SUMMARY GLOBALS

Selective restore (allows rename) <N>: **NO**

Restoring...

Global: ^APCHSCMP ... Restored
Global: ^APCHSFLI ... Restored
Global: ^APCHSPER ... Restored
Global: ^APCHSURV ... Restored
Global: ^APCHTMP ... Restored
Global: ^APCHSUP ... Restored
Restore Complete

[CLN,DEV]>**D ^APCHINIT**

This version (#2.0) of 'APCHINIT' was created on 12-NOV-1996
(at TUCSON DEVELOPMENT 486 SCO-BOX, by VA FileMan V.21.0)

I AM GOING TO SET UP THE FOLLOWING FILES:

9001015 HEALTH SUMMARY TYPE
Note: You already have the 'HEALTH SUMMARY TYPE' File.

9001016 HEALTH SUMMARY COMPONENT
Note: You already have the 'HEALTH SUMMARY COMPONENT' File.

9001017 HEALTH SUMMARY MEAS PANEL
Note: You already have the 'HEALTH SUMMARY MEAS PANEL' File.

9001018 HEALTH SUMMARY MAINT ITEM
Note: You already have the 'HEALTH SUMMARY MAINT ITEM' File.

9001019 HEALTH SUMMARY FLOWSHEET ITEMS
Note: You already have the 'HEALTH SUMMARY FLOWSHEET ITEMS' File.

9001020 HEALTH SUMMARY FLOWSHEET
Note: You already have the 'HEALTH SUMMARY FLOWSHEET' File.

9001021 HEALTH SUMMARY PERCENTILES
Note: You already have the 'HEALTH SUMMARY PERCENTILES' File.

9001022 HEALTH SUMMARY SUPPLEMENT
Note: You already have the 'HEALTH SUMMARY SUPPLEMENT' File.

SHALL I WRITE OVER FILE SECURITY CODES? No// **Y** (Yes)

NOTE: This package also contains SORT TEMPLATES

SHALL I WRITE OVER EXISTING SORT TEMPLATES OF THE SAME NAME? Yes// **Y** (Yes)

NOTE: This package also contains INPUT TEMPLATES

SHALL I WRITE OVER EXISTING INPUT TEMPLATES OF THE SAME NAME? Yes// **Y** (Yes)

NOTE: This package also contains PRINT TEMPLATES

SHALL I WRITE OVER EXISTING PRINT TEMPLATES OF THE SAME NAME? Yes// **Y** (Yes)

NOTE: This package also contains HELP FRAMES

SHALL I WRITE OVER EXISTING HELP FRAMES OF THE SAME NAME? Yes// **Y** (Yes)

NOTE: This package also contains SECURITY KEYS

SHALL I WRITE OVER EXISTING SECURITY KEYS OF THE SAME NAME? Yes// **Y** (Yes)

NOTE: This package also contains OPTIONS

SHALL I WRITE OVER EXISTING OPTIONS OF THE SAME NAME? Yes// **Y** (Yes)

ARE YOU SURE EVERYTHING'S OK? No// Y (Yes)

Now checking dictionary names and data globals.

Checking 9001015
 Checking 9001016
 Checking 9001017
 Checking 9001018
 Checking 9001019
 Checking 9001020
 Checking 9001021
 Checking 9001022

NUMBER	NAME	G^T DATA GLOBAL
9001015	HEALTH SUMMARY TYPE	S^S ["CLN", "DEV"]APCHSCTL(
9001016	HEALTH SUMMARY COMPONENT	S^S ["CLN", "DEV"]APCHSCMP(
9001017	HEALTH SUMMARY MEAS PANEL	S^S ["CLN", "DEV"]APCHSMPN(
9001018	HEALTH SUMMARY MAINT ITEM	S^S ["CLN", "DEV"]APCHSURV(
9001019	HEALTH SUMMARY FLOWSHEET ITEMS	S^S ["CLN", "DEV"]APCHSFLI(
9001020	HEALTH SUMMARY FLOWSHEET	S^S ["CLN", "DEV"]APCHSFLC(
9001021	HEALTH SUMMARY PERCENTILES	S^S ["CLN", "DEV"]APCHSPER(
9001022	HEALTH SUMMARY SUPPLEMENT	S^S ["CLN", "DEV"]APCHSUP(

The above list of dictionaries will be deleted in UCI ["CLN", "DEV"]. Data globals, TEMPLATES and AUTHORITIES, will be kept, deleted, or asked depending on flag. '?' in G position indicates invalid data global.

[S]ave, [D]elete, [A]sk. Globals to be deleted are also marked by '*' in position 1.

[C]ontinue, [S]top, [M]odify? C// C

9001015 HEALTH SUMMARY TYPE <WAIT>.....
 9001016 HEALTH SUMMARY COMPONENT <WAIT>....
 9001017 HEALTH SUMMARY MEAS PANEL <WAIT>.....
 9001018 HEALTH SUMMARY MAINT ITEM <WAIT>.....
 9001019 HEALTH SUMMARY FLOWSHEET ITEMS <WAIT>....
 9001020 HEALTH SUMMARY FLOWSHEET <WAIT>.....
 9001021 HEALTH SUMMARY PERCENTILES <WAIT>.....
 9001022 HEALTH SUMMARY SUPPLEMENT <WAIT>.....

Resetting ^DIC(0) <WAIT>
 Restoring saved ^DD nodes. <WAIT>

DONE

...HMMM, JUST A MOMENT
 PLEASE.....

'APCH CMS DISPLAY HS' Help Frame filed.
'APCH COMPONENTS' Help Frame filed.
'APCH MULTIPLE HS' Help Frame filed.
'APCH SUMMARY ATTRIBUTES' Help Frame filed.
'APCH SUMMARY TYPE' Help Frame filed.
'APCHS' Help Frame filed.
'APCHSBLD' Help Frame filed.
'APCHSUM' Help Frame filed.....
'APCHMENU' Option Filed
'APCHSBLD' Option Filed
'APCHSBRW' Option Filed
'APCHSCINQ' Option Filed
'APCHSFIDEL' Option Filed
'APCHSFIED' Option Filed
'APCHSFIINQ' Option Filed
'APCHSFSEDEL' Option Filed
'APCHSFSED' Option Filed
'APCHSFSINQ' Option Filed
'APCHSHMIP' Option Filed
'APCHSINA' Option Filed
'APCHSINQ' Option Filed
'APCHSMAINT' Option Filed
'APCHSMDEL' Option Filed
'APCHSMED' Option Filed
'APCHSMINQ' Option Filed
'APCHSTDEL' Option Filed
'APCHSTED' Option Filed
'APCHSTINQ' Option Filed
'APCHSUM' Option Filed
'APCHSUMM' Option Filed
'APCHSUMR' Option Filed
'APCHSUSER' Option Filed.....
NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE

* * * * *

HEALTH SUMMARY POST-INIT
Routine has been filed.

Routine has been filed.

Routine has been filed.

Routine has been filed.

Routine has been filed.

Updating [SURVEILLANCE PHYSICAL EXAM] taxonomy...
Updating [SURVEILLANCE PNEUMOCOCCAL RISK] taxonomy...

Entries for this taxonomy into the Pt Taxonomy file, will now occur via
Taskman
in background!
Installing Measurement Panels
ADULT STD
.

```

ADULT STD METRIC
.
PEDIATRIC STD
.
PEDIATRIC STD METRIC
.
Installing Health Summary Types
ADULT REGULAR
.
CHR
.
DENTAL
.
DIABETES STANDARD
.
IMMUNIZATION
.
MENTAL HEALTH/SOCIAL SERVICES
.
PEDIATRIC
.
PATIENT MERGE (COMPLETE)
.
PROBLEM LIST
.

```

PCC Health Summary v2.0 has been successfully completed!!

[CLN,DEV]>