



RESOURCE AND PATIENT MANAGEMENT SYSTEM

RPMS Uniform Data System Reporting System

(BUD)

Installation Guide and Release Notes

Version 11.0
January 2017

Office of Information Technology
Division of Information Technology

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Preface

This manual contains the installation guide for the Resource and Patient Management System (RPMS) Uniform Data System (UDS) Reporting System for calendar year (CY) 2016.

RPMS UDS Reporting is intended for use by Tribal or urban health facilities receiving grant funds for primary care system development programs administered by the Bureau of Primary Health Care (BPHC), Health Resources and Services Administration (HRSA). The RPMS UDS Reporting System provides passive extraction of patient and visit data from the Indian Health Service (IHS) RPMS to produce 10 of the 12 UDS report tables required annually by BPHC grantees.

Note: Submit 2016 UDS data by February 15, 2017 in order to assure adequate time for review and correction of data errors prior to final submission. Changes to these data will be permitted until March 31, 2017.

The RPMS UDS Reporting System software will be reviewed annually and updated as needed as BPHC reporting requirements change.

Additional information about BPHC grants and BPHC UDS reporting can be found at the following Web site: <https://bphc.hrsa.gov/datareporting/reporting/index.html>.

Rules of Behavior

All RPMS users are required to observe Department of Health and Human Services and IHS Rules of Behavior regarding patient privacy and the security of both patient information and IHS computers and networks. This document provides both RPMS and UDS Rules of Behavior.

1.0 Release Notes

This manual provides installation instructions for the RPMS UDS Reporting System for CY 2016. The chapters included in the manual cover these main system components:

1. Installation notes
2. Installation instructions
3. Sample installation

1.1 Key Changes for Version 11.0

1.1.1 Menu Changes

- Reports Menu Changes
 - Added UD16 UDS 2016 as a menu option.
 - Removed UD07 UDS 2007 as a menu option.

1.1.2 Table Changes for Version 11.0

1.1.2.1 Table 3A

Renamed table to “Patients by Age and by Sex Assigned at Birth.”

1.1.2.2 Table 3B

- Renamed table to “Demographic Characteristics.”
- Added new sections for “Patients by Sexual Orientation” and “Patients by Gender Identity.”

1.1.2.3 Table 5–Staffing and Utilization

Added three new staff categories:

1. Dental Therapists
2. Community Health Workers (CHWs)
3. Quality Improvement (QI)

1.1.2.4 Table 6A– Selected Diagnoses and Services Rendered

Removed ICD-9 codes.

1.1.2.5 Table 6B–Quality of Care Measures

- Aligned many measures with Centers for Medicare and Medicaid Services (CMS’) electronic-Clinical Quality Measure (e-CQM).
- Added Systematized Nomenclature of Medicine (SNOMED) codes to many measures.
- Section C – Childhood Immunization Status:
 - Denominator changed to patients age 2
 - Added 1 Hepatitis A, 2 or 3 rotavirus, and 2 influenza vaccines to those required
- Section D – Cervical Cancer Screening:
 - Denominator changed to patients age 23 through 64
 - Numerator no longer includes patients with Pap and Human Papilloma Virus (HPV) for those over 30
- Section F – Preventive Care and Screening: Body Mass Index (BMI) Screening and Follow-Up:
 - Added denominator exclusions for patients receiving palliative care, refusal of height and/or weight, or other medical reason
- Section G – Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention:
 - Denominator includes patients with either at least two medical visits or one preventative visit during the report period
 - Added denominator exclusions for patients with medical reason for not screening for tobacco use
- Section H – Use of Appropriate Medications for Asthma:
 - Denominator changed to patients age 5 through 64
 - Denominator does not include criteria of two visits ever
 - Added denominator exclusions for patients with emphysema, COPD, cystic fibrosis, or acute respiratory failure
 - Removed exclusion of allergic reaction to asthma medications
- Section K – Colorectal Cancer Screening:
 - Denominator changed to patients age 50 through 75
- Section M – Preventive Care and Screening: Screening for Clinical Depression and Follow-Up Plan:

- Added denominator exclusions for patients with refusal or who are in urgent or emergent situations
- Changed logic so that follow-up plan must be on the same day as the positive screen
- Section N – Oral Health Sealant for Children 6–9 Years:
 - Denominator includes criteria that patient must have a dental visit during the report period

1.1.2.6 Table 7–Quality of Care Indicators

- Aligned measures with CMS’ e-CQM measures.
- Added SNOMED codes to measures.
- Section B – Controlling High Blood Pressure:
 - Denominator changed to patients age 18 through 85
 - Added denominator exclusions for patients with dialysis, renal transplant, or chronic kidney disease
 - Denominator changed so it does *not* include criteria of two visits during the report period
- Section C – Diabetes: Hemoglobin A1c Poor Control:
 - Denominator changed to patients age 18 through 75
 - Denominator changed so it does *not* include criteria of two visits during the report period

1.1.3 Taxonomy Changes

None

2.0 Introduction

IHS RPMS UDS Reporting is intended for use by Tribal or Urban health facilities receiving grant funds for primary care system development programs administered by the BPHC, HRSA. The RPMS UDS Reporting System provides passively extracting patient and visit data from the RPMS to produce 10 of the 12 UDS reports. For each of the 10 reports, RPMS UDS also produces lists of all patients and related visits that are counted in the reports.

Note: The UDS 2016 reports are due to BPHC on or before February 15, 2017. This is in order to assure adequate time for review and data error correction prior to final submission. Changes to these data will be permitted until March 31, 2017.

RPMS UDS Reporting System software will be reviewed annually and updated as needed as BPHC reporting requirements change.

2.1 About the BPHC UDS

The BPHC UDS is an integrated reporting system used by all grantees of the following primary care programs administered by the BPHC, HRSA:

- Community Health Center, as defined in Section 330(e) of the Health Centers Consolidation Act as amended
- Migrant Health Center, as defined in Section 330(g) of the Act
- Health Care for the Homeless, as defined in Section 330(h) of the Act
- Public Housing Primary Care, as defined in Section 330(i) of the Act

BPHC collects data on its programs to ensure compliance with legislative mandates and to report program accomplishments to Congress, the Office of Management and Budget (OMB), and other policy making bodies. To meet these objectives, BPHC requires that grantees annually submit a core set of information that is appropriate for monitoring and evaluating performance and for reporting on annual trends. The UDS is the vehicle used by BPHC to obtain this information.

UDS reports provide a comprehensive picture of all activities within the scope of BPHC-supported projects. Grantees should report on the total (unduplicated) number of patients and activities within the scope of projects supported by any and all BPHC primary care programs covered by the UDS.

See the Quick Reference Guide for relevant excerpts from the BPHC UDS manual. Additional information can be obtained from the following Web site:
<https://bphc.hrsa.gov/datareporting/reporting/index.html>.

2.2 RPMS UDS Reporting System Overview

The RPMS UDS Reporting System is a software tool that produces 10 of the 12 reports required annually by BPHC grantees. These reports provide an overview of patients and visits at a grantee facility. The information gathered includes:

1. Number of patients
2. Patient's age
3. Patient's gender
4. Patient's zip code of residence
5. Patient's race/ethnicity
6. Number of visits by provider type
7. Number of visits by key diagnoses and services
8. Quality of care indicators
9. Health outcome
10. Disparities

The system produces the following reports:

- Patients by Zip Code
- Patients by Age and Gender (Table 3A)
- Patients by Hispanic or Latino Identity/Race/Language (Table 3B)
- Selected Patient Characteristics (Table 4)
- Staffing and Utilization (Table 5, Column A)
- Staffing and Utilization (Table 5, Columns B and C)
- Selected Diagnoses and Services Rendered (Table 6A)
- Quality of Care Indicators (Table 6B)
- Health Outcome and Disparities (Table 7)
- Patient-Related Revenue (Table 9D)

Additionally, RPMS UDS will provide the following lists to assist in verifying data.

- LST1–Lists for Tables Zip Code, 3A & 3B, 4, 5, and 6A
- LST2–Lists for Table 6B
- LST3–Lists for Table 7

Individual quarter reports for the entire calendar year can also be run.

Note: Tables 6B and 7 must be run using the Full Calendar Year option. If these reports are run using the Quarterly options, the totals combined will not match the calendar year totals.

The RPMS UDS also includes an option to save all patients that meet the BPHC definition of a patient to an RPMS search template. That data can then be used to prepare other needed reports that are submitted to BPHC.

Note: BPHC reporting is based on calendar year (January through December) rather than fiscal year (October through September).

See the “Report Descriptions” section in the BUD User Manual for a description of the detailed logic for each report.

3.0 Installation Notes

Prefix: **BUD**

Current Version: **11.0**

3.1 Contents of Distribution

Table 3-1 lists the files and their descriptions that are included in the BUD V11.0 distribution.

Table 3-1: Contents of BUD v11.0 Distribution

File	Description
bud_1100.k	Kernel Installation & Distribution System (KIDS) file containing software
bud_110i.pdf	Installation guide in PDF format
bud_110t.pdf	Technical manual in PDF format
bud_110u.pdf	User's guide in PDF format

3.2 Required Resources

- Kernel V 8.0 or higher
- FileMan 21 or higher
- Clinical Reporting System (CRS) V17.0 or higher (bgs_1700.k)
- UDS Version 10.0 (bud_1000.k)

3.3 Before You Begin: Installation Issues

1. Make a copy of this distribution for off-line storage.
2. Print a copy of all notes and/or readme files.
3. Capture the terminal output during the installation using an auxport printer attached to the terminal at which you are performing the software installation. This will ensure a printed audit trail if any problems should arise.

4.0 Installation Instructions

In all UCIs running the RPMS UDS Reporting System:

1. Ensure that users are unable to use the RPMS UDS Reporting System for the duration of this installation. Installation takes approximately five minutes.
2. Save all routines (^%RO(CACHE)) and globals (^%GO(CACHE)) in the BUD* namespace for use in returning to the previous version installed, if needed.

<p>Note: If this is a first-time install, there will be no routines or globals in this namespace.</p>
--

3. Install bud_1100.k. This file is the KIDS file for the RPMS UDS Reporting System.
 - a. Load the distribution into KIDS using Option 1 on the KIDS Installation menu.
 - b. Verify the load using **Option 2** on the KIDS Installation Menu.
 - c. Optional: Load **Options 3 and 4** on the KIDS Installation Menu to print and compare the transport.
 - d. Install the distribution using **Option 6** on the KIDS Installation Menu.
4. After the installation is complete, assign security key BUDZMENU to all users of this package at the service unit level. If this package is being installed at an Area Office, the BUDZMENU and BUDZMGR keys also need to be assigned to users of the package.

5.0 Sample Installations

```

DEVA>D ^XPKDRN

KIDS 8.0

Select KIDS OPTION: 1  LOAD A DISTRIBUTION
Enter a Host File: x:\export\bud_1100.k

KIDS Distribution saved on Dec 15, 2016@11:07:17
Comment: IHS/RPMS UNIFORM DATA SYSTEM V11.0

This Distribution contains Transport Globals for the following Package(s):
Build IHS/RPMS UNIFORM DATA SYS 11.0 has been loaded before, here is when:
      IHS/RPMS UNIFORM DATA SYS 11.0   Install Completed
                                         was loaded on Dec 15, 2016@11:07:49
OK to continue with Load? NO// y  YES

Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

Build IHS/RPMS UNIFORM DATA SYS 11.0 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
      IHS/RPMS UNIFORM DATA SYS 11.0
Will first run the Environment Check Routine, BUDDENV

Use INSTALL NAME: IHS/RPMS UNIFORM DATA SYS 11.0 to install this Distribution.

DEVA>d ^XPKDRN

KIDS 8.0

Select KIDS OPTION: INSTALL PACKAGE(S)
Select INSTALL NAME:      IHS/RPMS UNIFORM DATA SYS 11.0      Loaded from Distribut
ion      Loaded from Distribution 12/15/16@11:17
      => IHS/RPMS UNIFORM DATA SYSTEM V11.0 ;Created on Dec 15, 2016@11:07:17

This Distribution was loaded on Dec 15, 2016@11:17 with header of
      IHS/RPMS UNIFORM DATA SYSTEM V11.0 ;Created on Dec 15, 2016@11:07:17
It consisted of the following Install(s):
IHS/RPMS UNIFORM DATA SYS 11.0
Checking Install for Package IHS/RPMS UNIFORM DATA SYS 11.0
Will first run the Environment Check Routine, BUDDENV

Install Questions for IHS/RPMS UNIFORM DATA SYS 11.0

Incoming Files:

      90668.1  UDS 16 SITE PARAMETERS
Note:  You already have the 'UDS 16 SITE PARAMETERS' File.

```

90668.2 UDS 16 CONTROL TABLES (including data)
 Note: You already have the 'UDS 16 CONTROL TABLES' File.
 I will REPLACE your data with mine.

90668.3 UDS 16 TABLE 3 FORMAT (including data)
 Note: You already have the 'UDS 16 TABLE 3 FORMAT' File.
 I will REPLACE your data with mine.

90668.4 UDS 16 INCOME LEVELS (including data)
 Note: You already have the 'UDS 16 INCOME LEVELS' File.
 I will REPLACE your data with mine.

90668.5 UDS 16 TABLE 5 FORMAT (including data)
 Note: You already have the 'UDS 16 TABLE 5 FORMAT' File.
 I will REPLACE your data with mine.

90668.6 UDS 16 LST2 REPORTS (including data)
 Note: You already have the 'UDS 16 LST2 REPORTS' File.
 I will REPLACE your data with mine.

90668.7 UDS 16 TABLE 6 CODES (including data)
 Note: You already have the 'UDS 16 TABLE 6 CODES' File.
 I will REPLACE your data with mine.

90668.8 UDS 16 TABLE CODE LISTS (including data)
 Note: You already have the 'UDS 16 TABLE CODE LISTS' File.
 I will REPLACE your data with mine.

Enter the Device you want to print the Install messages.
 You can queue the install by enter a 'Q' at the device prompt.
 Enter a '^' to abort the install.

```
DEVICE: HOME//  Virtual
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
```

```
Install Started for IHS/RPMS UNIFORM DATA SYS 11.0 :
        Dec 15, 2016@11:17:12
```

```
Build Distribution Date: Dec 15, 2016
```

```
Installing Routines:
        Dec 15, 2016@11:17:12
```

```
Running Pre-Install Routine: PRE^BUDDENV
```

```
Installing Data Dictionaries:
        Dec 15, 2016@11:17:13
```

```
Installing Data:
        Dec 15, 2016@11:17:13
```

```
Installing PACKAGE COMPONENTS:

Installing PRINT TEMPLATE

Installing SORT TEMPLATE

Installing PROTOCOL

Installing LIST TEMPLATE

Installing OPTION
      Dec 15, 2016@11:17:15

Running Post-Install Routine: POST^BUDDENV
Updating [BUD HYSTERECTOMY CPTS UDS16] taxonomy...
Updating [BUD PAP CPTS UDS 16] taxonomy...
Updating [BUD HIV DXS] taxonomy...
Updating [BUD DIABETES MEDS NDC] taxonomy...
Creating BUD DIABETES MEDS TAX Taxonomy...
Creating BGP PQA CONTROLLER MEDS Taxonomy...
Creating BGP HEDIS ANTIDEPRESSANT MEDS Taxonomy...
Creating BGP PQA SABA MEDS Taxonomy...
Creating BUD LIPID LOWERING MEDS Taxonomy...
Creating BUD ANTIPLATELET MEDS Taxonomy...

Updating Routine file...

Updating KIDS files...

IHS/RPMS UNIFORM DATA SYS 11.0 Installed.
      Dec 15, 2016@11:17:23

Not a VA primary domain

Install Completed
```

Figure 5-1: A sample KIDS installation

Acronym List

Acronym	Term Meaning
BMI	Body Mass Index
BPHC	Bureau of Primary Health Care
CMS	Centers for Medicare and Medicaid Services
CQM	Clinical Quality Measure
CRS	Clinical Reporting System
CY	Calendar Year
HPV	Human Papilloma Virus
HRSA	Health Resources and Services Administration
IHS	Indian Health Service
KIDS	Kernel Installation & Distribution System
OMB	Office of Management and Budget
QI	Quality Improvement
RPMS	Resource and Patient Management System
SNOMED	Systematized Nomenclature of Medicine
UDS	Uniform Data System

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (888) 830-7280 (toll free)

Web: <http://www.ihs.gov/helpdesk/>

Email: support@ihs.gov