



Navigating RWHAP Data: Importance of Quality in the RSR & ADR

Administrative Reverse Site Visit (ARSV)
November 14, 2023

Matthew Kenny, MPH Nicole A. Viviano, MA

Statisticians | Data Management & Analysis Branch | Division of Policy & Data | HIV/AIDS Bureau (HAB)

Vision: Healthy Communities, Healthy People





Session Objectives

After the session, attendees shall be able to:

- 1. Describe HAB's process of data collection, cleaning, and processing
- 2. Identify high-level critical data elements in the Ryan White HIV/AIDS Program (RWHAP) Services Report (RSR) and AIDS Drug Assistance Program (ADAP) Report (ADR)
- 3. Discuss common data quality issues observed in the RSR and ADR
- 4. Understand the importance and impact of the data submitted for the RSR and ADR





Ryan White HIV/AIDS Program (RWHAP) Services Report (RSR)

- Overview of the RSR
- Data Cleaning & Processing
- Critical Data Elements
- Data Quality Issues





Overview of the RSR

General Information

- The RSR is a reporting system that collects information on the characteristics of RWHAP-funded recipients, providers, and clients.
- All RWHAP recipients and providers are expected to report Client-level data annually to HAB through the RSR.
- HAB uses the Client-level data to monitor health outcomes of clients with HIV and fulfill its congressional reporting obligations.
- The RSR consists of three components:
 - 1. Recipient Report
 - 2. Provider Report
 - 3. Client-level data





Overview of RSR

Recipient Report

- Each recipient completes a **separate** Recipient Report for each RWHAP grant received.
- The Recipient Report is divided into <u>two</u> sections:
 - 1. General Information collects basic information about the recipient organization such as recipient name, mailing address, and contact information
 - 2. **Program Information** collects information on the recipient's contracts with service providers
- Recipients must complete the Recipient Report before providers can begin the Provider Report.
- Reporting Period: January 1st to December 31st



Overview of RSR

Provider Report

- The Provider Report collects information about both the provider and the RWHAP services, RWHAP-related services, and Ending the HIV Epidemic (EHE) Initiative-Funded services delivered.
- Providers are required to complete one Provider Report regardless of how many sources of funding received.
- Provider Report collects information on:
 - Organization details (e.g., provider name, address, zip code)
 - Provider type (e.g., hospital clinic versus health department)
 - Services provided to clients
 - Client-level data
- **Reporting Period**: January 1st to December 31st



Overview of RSR

Client-Level Data

A Client-level data file must be submitted for all providers who were funded by RWHAP.

upload their clientlevel data in a

their Provider Report.

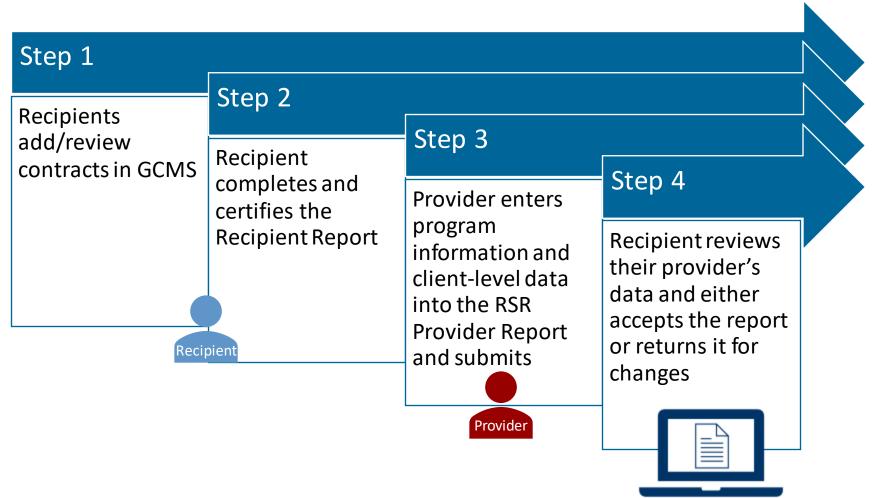
- This Client-level data should contain one record for each client who received at least one RWHAP direct, RWHAP-related, or EHE Initiative-Funded service during the reporting period.
- The data elements include:
 - Encrypted Unique Client Identifier (eUCI)
 - Demographic information
 - Core medical, support services, and EHE Initiative-Funded services received
 - Clinical information (required if the client received Outpatient Ambulatory Health Services [OAHS])
- Reporting Period: January 1st to December 31st





Data Reporting Process

Submitting Data





Data Cleaning & Processing

Client-Level Data

- At the end of the RSR submission period, HAB performs the following actions:
 - 1. Clean and transform individual client records. For example:
 - Create HIV-presumed status
 - Compare HIV transmission category to HIV Status
 - Clean illogical relationships between dates (OAHS Link Date, Birth Year, etc.)
 - 2. Use client eUCI, demographic information, and funding information to de-duplicate clients across providers.
 - 3. Combine client records across providers, for example:
 - Apply hierarchy for housing status, HIV transmission category, poverty level etc.
 - Combine insurance coverages
 - Apply minimum to numeric Prescribed Antiretroviral Therapy (ART) status
 - 4. Create derived fields, for example:
 - Last viral suppression status
 - HAB retention in care measure
 - Client state





RSR Client-Level Data Critical Data Elements

- Client Demographics
- Clinical Information
- Core Medical & Support Services
 Received





RSR Client-Level Data (1)

Data Element Requirements

Table 6. Required Client-Level Data Elements for RWHAP Services

Report the data element Client-level Data Elements Client Demographics	Outpatient/Ambulatory Health Services	Medical Case Management	Oral Health Care	Early Intervention Services	Home Health Care	Home and Community-Based Health Services	Hospice Services	Mental Health Services	Medical Nutrition Therapy	Substance Abuse Outpatient Care	AIDS Pharmaceutical Assistance	Health Insurance Premium and Cost-Sharing Assistance	Non-Medical Case Management	Child Care Services	Emergency Financial Assistance	Food Bank/Home-Delivered Meals	Health Education/Risk Reduction	Housing	Modical Transportation	Output Commission	Other Professional Services	Psychosocial Support Services	Referral for Health Care and	Pohabilitation Sources	Respite Care	Substance Abuse Services (residential)	EHE Initiative Services	Rationale
Year of birth						•							•											Τ.			1.	2,6
Ethnicity						•				•		•										-		١.				2,3,6
Hispanic subgroup						•				•		•				•								١.				2,3,6
Race						•				•		•			•		•					٠.	٠.	١.			٠.	3,6
Asian subgroup			•	•	•	•			•	•	•	•	•			•	•				. •			١.				3,6
NHPI subgroup			•	•	•	•		•		•	•	•	•		•	•	•	•				•		٦.			•	3.6
Gender		•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•				١.		•		2,3,6
Sex at birth		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•		٦.			•	2,3,6
Health coverage	•	•	•	•	•	•	•	•	•	•	•	•	•														•	2,6
Housing status		•											•	П				•	Т	Т	\neg	Т		Т	\top		•	2,6
Housing status collection date	•	•											•					•									•	2,6
Federal poverty level percent	•	•											•							\perp							•	2,6
HIV/AIDS status	•	•											•														•	2,3
Client risk factor	•	•											•							\perp							•	6
Vital status	•	•											•														•	4,5
HIV diagnosis year (for new clients)	•	•											•														•	2,3
New client (for EHE initiative-funded providers)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	• •	• •	•	•	•	•	•	•	•	1,6
Received services previous year (for EHE initiative-funded providers)	•	•											•															3,4,6





RSR Client-Level Data (2)

Data Element Requirements

Table 6. Required Client-Level Data Elements for RWHAP Services

Report the data element Client-level Data Elements	Outpatient/Ambulatory Health Services	Medical Case Management	Oral Health Care	Early Intervention Services	Home Health Care	Home and Community-Based Health Services	Hospice Services	Mental Health Services	Medical Nutrition Therapy	Substance Abuse Outpatient Care	AIDS Pharmaceutical Assistance	Health Insurance Premium and Cost-Sharing Assistance	Non-Medical Case Management	Child Care Services	Emergency Financial Assistance Food Bank/Home-Delivered	Meals	Health Education/Risk Reduction	Linquistics Services	Medical Transportation	Outreach Services	Other Professional Services	Psychosocial Support Services	Referral for Health Care and Support Services	Rehabilitation Services	Respite Care	Substance Abuse Services (residential)	EHE Initiative Services	Rationale
Client Clinical Data																												
First outpatient/ambulatory health service visit date	•																					\perp						2,3,4
Outpatient ambulatory health service visits and dates	•																											3,4
CD4 counts and dates	•																											3,4
Viral load counts and dates	•																											3,4
Prescribed ART	•																											3,4
Screened for syphilis	•																											3
Pregnant	•																											2,3,4
Date of first positive HIV test (for clients with new HIV diagnosis)	•														Τ							I						1,3,4,5,6
Date of OAHS visit after first positive HIV test (for clients with new HIV diagnosis)	•																											1,3,4,5





RSR Client-Level Data (3)

Data Element Requirements

These data allow us to:

- 1. Fulfill 2009 Ryan White HIV/AIDS Program statute requirements
- 2. Assess RWHAP performance as required for HRSA HAB's programmatic measures
- 3. Identify new clients and monitor client retention
- 4. Identify reach and performance for vulnerable population subgroups





Service Records

- For each client, service records for core medical services, support services, and EHE-Initiative services must be reported.
- As of the RSR2019, services funded through **RWHAP direct** <u>or</u> **RWHAP-related funding** (e.g., pharmaceutical rebates) must be included in reporting.

Example: Provider 1

- Provider 1 was contracted under a RWHAP grant for Outpatient Ambulatory Health Services (OAHS), Medical Case Management (MCM), and Local AIDS Pharmaceutical Assistance Program (LPAP)
- Provider 1 used only pharmaceutical rebates to provide LPAP.

Client eUCI (Client Identifier)	Service ID	Visits
YEB23TGCI87539GTM2346987532148565DCG21564	8 (OAHS)	24
YEB23TGCI87539GTM2346987532148565DCG21564	18 (MCM)	10
YEB23TGCI87539GTM2346987532148565DCG21564	9 (LPAP)	. (N/A)
YEB23TGCI87539GTM2346987532148565DCG21564	46 (EHE)	4

When combined with Client Demographics, this file allows us to analyze service utilization by geographic area and subpopulation. It also allows us to identify client with RWHAP funded OAHS.





Client Demographics

- Several required demographic characteristics are collected and reported out to the public. This increases transparency, fulfills legislative requirements, and highlights program impact.
- The following are displayed prominently on the RSR Annual Client-level Data Report.
 - Birth Year (Age)
 - Federal Poverty Level
 - Gender
 - Health Care Coverage

- HIV Transmission Category
- HIV Status
- Housing Status
- Race/Ethnicity





Clinical Information

- The following data elements are critical for clients that receive Outpatient Ambulatory Health Services (OAHS):
 - Viral Load Tests and Test Dates
 - OAHS Visit Dates
 - Prescribed ART Indicator
- HAB Retention is constructed from the reported OAHS Visit Dates. HAB retention is featured in about 25% of the RSR Annual Client-level data tables
- Viral suppression rates are constructed from the reported viral load measures and test dates. These outcomes are featured in about 25% of the RSR Annual Client-level data tables
- Prescribed ART rates for various population subgroups are used to monitor clinical care.





Data Completeness

Demographic Element	RSR2022 Missing Rate
Birth Year	0.0%
Ethnicity	0.8%
Federal Poverty Level	2.9%
Gender	<0.1%
Health Care Coverage	2.7%
HIV transmission category Factor	3.3%
HIV Status	0.3%
Housing Status	2.6%
Race	3.6%
Sex at Birth	0.6%

Clinical Element	RSR2022 Missing Rate
Viral Load	5.0%
Ambulatory Care Visit	0.2%
Prescribed ART Indicator	0.8%





>1.0% = Red

<1.0% = Black



RSR Client-Level Data Data Quality Issues

- HIV Status
- OAHS and Clinical Outcome Populations
- Provider and Provider Site Addresses
- Provider Site Services
- RWHAP Direct & Related Funding





Data Quality Issues

RSR Client Report – HIV Status

Significance

- HIV Status is required information for any client outcome (*Viral Suppression, HAB Retention*) to be included in the RSR Annual Client-level data Report.
- HIV Status also impacts our final determination of client transmission category factor.
- With the RSR2018, we began assuming HIV-positive status for clients with certain RWHAP services.
- We still see a significant rate of reported clients whose HIV status is missing and cannot be assumed.

Imputation Results

Data Year	Presumed HIV- Positive	Presumed HIV- Positive %	HIV-Unknown	HIV-Unknown %
RSR2022	8,100	1.4%	5,488	1.0%
RSR2021	8,766	1.5%	6,093	1.1%
RSR2020	2,723	0.5%	3,215	0.6%
RSR2019	5,063	0.9%	7,149	1.3%
RSR2018	10,962	2.0%	11,540	2.2%

In RSR2022, there were 1,605 clients who received an RWHAP service that is restricted to HIV+ clients but had missing HIV status.





Data Quality Issues

RSR Client Report – OAHS and Clinical Outcome Populations

- Acknowledgement of RWHAP direct (or RWHAP-related funding) OAHS is required to consider clinical outcomes reflective of program performance
- Without an OAHS designation we may lose certain data elements when we clean data.
- This means if the client does not have a serviceID=8 (Element ID 16) record in ClientReportServiceVisits, then
 - 1. Client's records are deleted from ClientReportAmbulatory (Element ID 48)
 - 2. Client's records are deleted from ClientReportCd4Test (Element ID 49)
 - 3. Client's records are deleted from ClientReportViralLoadTest (Element ID 50)

File	RSR2022 Records Deleted	RSR2022 % Deleted
ClientReportAmbulatory	29,901	1.9%
ClientReportCd4Test	13,609	1.7%
ClientReportViralLoadTest	11,138	1.2%





Data Quality Issues (1)

RSR Provider Report – Provider Site Services

Significance

- The link of RWHAP services to direct service site determine the site's inclusion or exclusion in the Find-A-Provider web tool.
- If data quality improves, we may list the services offered at each site in the client-facing Find-A-Provider web tool, enhancing prospective clients' ability to connect with an appropriate RWHAP provider.

Issues

The following reporting issues have persisted since data collection began with RSR2016.

- In RSR2022, **135** providers reported at least one service for which they did <u>not</u> supply an associated service site.
- In RSR2022, **2,475** provider and service combinations were found in the client-level service delivery data but were not associated with a service site.

We continue to receive incomplete information on the physical location of service provision which does not allow HAB to analyze this data or offer a comprehensive directory of service sites to potential clients.





Data Quality Issues

RSR Provider Report - Provider and Provider Site Addresses

Significance

- Provider and provider site addresses are communicated to the public through the HRSA Data Warehouse and the RWHAP Find-A-Provider web tool.
- For the RSR Annual Client-level data Report, client assignment to Eligible Metropolitan Area and Transitional Grant Area (EMA/TGA) is decided via provider address.

Issues

- P.O. Boxes are reported in place of a physical address. These are often in different states.
- City name is submitted in place of a street address.
- Intersections or building names are reported in place of a geocode-able street address.

The Data Management and Analysis Branch (DMAB) uses significant resources each year to search for physical provider and provider site addresses and impute data with past manual research.



EMA/TGA assignment and publicized addresses rely on analyst research rather than self-reporting by providers.

Data Quality Issues (2)

RSR Provider and Recipient Report - RWHAP Direct & Related Funding

What is RWHAP Direct Funding?

- Providers are directly funded by an RWHAP Recipient to provide the service, and that funding was used to provide the service to the client.
- These contracts must be reported in the Grantee Contract Management System (GCMS).

What is RWHAP-Related Funding?

• The Provider used RWHAP-related funding, such as program income or pharmaceutical rebates, to provide the service to the client.



Some services may be tied to both funding types.



Data Quality Issues (2b)

RSR Provider and Recipient Report - RWHAP Direct & Related Funding

How do recipients report RWHAP-related funding for their providers? GCMS Edit/Delete Contract - Item 9

If applicable, indicate the core medical and essential support services that are funded for this contract by selecting the "Update Services" button.

Update Services

Service Name	RWHAP Funding	Funding (Program Income and Pharmaceutical	Base (Do not	not include Program Income and Pharmaceutical	Supplemental (Do not include Program Income and Pharmaceutical Rebates dollars)	Total
Emergency Financial Assistance	8		\$949,858			\$949,858
Total			\$949,858			\$949,858

Created by: SysAdmin1-d Created date: 10/23/2015

Last modified by: ryanwhitedatasupport@wrma.com

Last modified date: 1/10/2017





Data Quality Issues (2a)

RSR Provider and Recipient Report – RWHAP Direct & Related Funding

Significance

• RWHAP-related funding corresponds to check-box elements added to the Grantee Contract Management System (GCMS) and the RSR provider report.

Issues

- In the RSR2022, **352** provider and client report service combinations (core or support) were <u>not</u> tied to either direct funding <u>or</u> RHWAP-related funding, as reported by recipients and providers.
- While the RWHAP-related funding checkbox was introduced into the provider report with the RSR2019, the existing delivery checkboxes were never considered reliable, due to the mismatch between these checkboxes and the client report service files.

The use of the funding checkboxes is critical for HAB to analyze the use of funding streams and associate services and clients with RWHAP Parts.



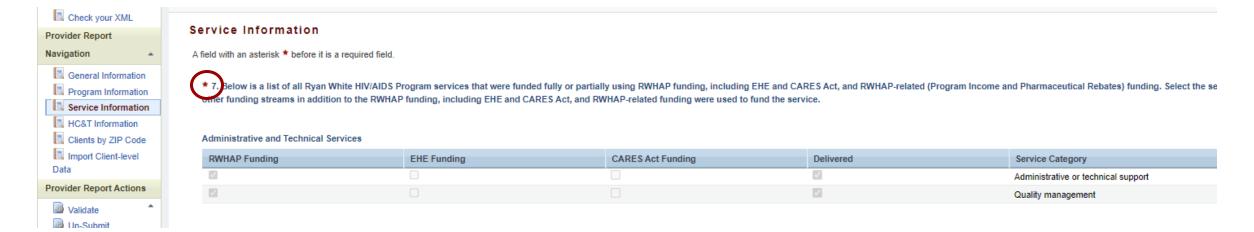
We no longer use the delivery checkboxes (7 & 7a) to limit the scope of service records, due to long-standing inconsistency (pre-RSR 2019) between the checkboxes and client report service records.



Data Quality Issues (2c)

RSR Provider and Recipient Report – RWHAP Direct & Related Funding

How do providers report RWHAP-related funding? Sections 7 & 7a of Provider Report



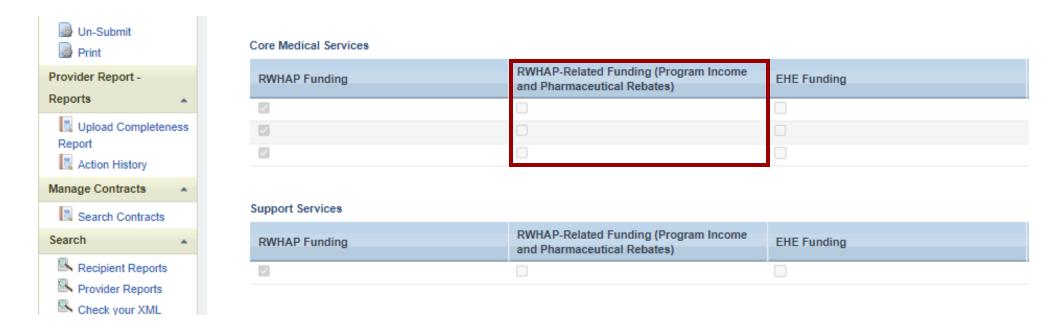




Data Quality Issues (2d)

RSR Provider and Recipient Report - RWHAP Direct & Related Funding

How do providers report RWHAP-related funding? Sections 7 & 7a of Provider Report



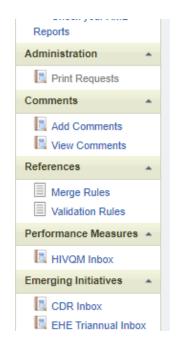




Data Quality Issues (2e)

RSR Provider and Recipient Report – RWHAP Direct & Related Funding

How do providers report RWHAP-related funding? Sections 7 & 7a of Provider Report



EHE Initiative Services		
EHE Funding	Delivered	Service Category
No records to display	•	·
a. In the table below, select a	any additional services delivered by your organiza	ation that were funded by your organization's generated Program Income or Pharmaceutical Rebates.
and the table below, solder	any dedication of these delivered by your organiza	and the state of four digenterior of generation in ordination in ordinat
Additional Services Delivered	Through Your Organization's Generated Program	n Income and/or Pharmaceutical Rebates
Delivered	Service Category	
	AIDS Pharmaceutical Assistance	ce
	Child Care Services	
	Early Intervention Services (EIS	3)
	Emergency Financial Assistance	re
	Food Bank/Home Delivered Me	eals
	Health Education/Risk Reductio	on





Data Quality Issues (2f)

RSR Provider Report – Provider Site Services

Service Delivery Sites

Note: You can use organization address for a service delivery site if this address is used to deliver client services. If not, select the Add a Site button to add a service delivery site.

			2	City	State	Zip	Country	Postal Code	Phone Number	Actions		
										Edit Delete		
	org Tuesday 8:30 a n	n to 8 n m Wednesda	v Thursday and F	riday 8:30 a r	n to 5 n r	m						
Services provided at this site: Medical Case Management, including Treatment Adherence Services, Medical Transportation, Early Intervention Services (EIS), Outpatient/Ambulate Health Services, Mental Health Services												
										Edit Delete		
Website URL: www Hours of Operation: Monday Tue	org esdav Wednesdav	and Friday 8:30 a m	to 5 n m. Thursda	v 10:30 a m	to 8 n m							
-		ices,Early Intervention	Services (EIS),Ou	utpatient/Amb	ulatory He	ealth Serv	rices,Medical	l Case Manage	ement, including	Treatment		
	Hours of Operation: Monday and Services provided at this site: M Health Services, Mental Health Ser Website URL: www Hours of Operation: Monday Tue Services provided at this site: M	Hours of Operation: Monday and Tuesday 8:30 a m Services provided at this site: Medical Case Mana Health Services, Mental Health Services Website URL: www	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday Services provided at this site: Medical Case Management, including Tre Health Services, Mental Health Services Website URL: www org Hours of Operation: Monday Tuesday Wednesday and Friday 8:30 a.m. Services provided at this site: Mental Health Services, Early Intervention	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday. Thursday and Edervices provided at this site: Medical Case Management, including Treatment Adherence Health Services, Mental Health Services Website URL: www	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday. Thursday and Eriday 8:30 a.m. Services provided at this site: Medical Case Management, including Treatment Adherence Services, Me Health Services, Mental Health Services Website URL: www org Hours of Operation: Monday Tuesday Wednesday and Friday 8:30 a.m. to 5 p.m. Thursday 10:30 a.m. Services provided at this site: Mental Health Services, Early Intervention Services (EIS), Outpatient/Amb	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday. Thursday and Friday 8:30 a.m. to 5 p.m. Services provided at this site: Medical Case Management, including Treatment Adherence Services, Medical Translealth Services, Mental Health Services Website URL: www	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday. Thursday and Friday 8:30 a.m. to 5 p.m. Services provided at this site: Medical Case Management, including Treatment Adherence Services, Medical Transportation Health Services, Mental Health Services Website URL: www	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday Thursday and Eriday 8:30 a.m. to 5 p.m. Services provided at this site: Medical Case Management, including Treatment Adherence Services, Medical Transportation, Early Interview Health Services, Mental Health Services Website URL: www	Services provided at this site: Medical Case Management, including Treatment Adherence Services, Medical Transportation, Early Intervention Services Health Services, Mental Health Services Website URL: www	Hours of Operation: Monday and Tuesday 8:30 a.m. to 8 p.m. Wednesday, Thursday and Eriday 8:30 a.m. to 5 p.m. Services provided at this site: Medical Case Management, including Treatment Adherence Services, Medical Transportation, Early Intervention Services (EIS), Outpatient Health Services, Mental Health Services Website URL: www		





AIDS Drug Assistance Program (ADAP) Report (ADR)

- Overview
- Data Cleaning & Processing
- Critical Data Elements
- Data Quality Issues





Overview of the ADR

General Information

Recipient Report*

 Recipient characteristics, programmatic policies, funding, expenditures, and medication formulary

Client Report*

- Every client enrolled in the RWHAP ADAP during the reporting period
 - One record per client
- Client demographics, enrollment status, clinical information, and medication assistance and/or health insurance services
- HIV clinical information



 $^{{\}it *Both\ components\ are\ annual\ submission\ requirements\ for\ RWHAP\ ADAPs}$

Overview of the ADR

Reporting vs. Submission Period

Recipient Report*

Reporting Period: April 1st to March 31st

Submission Period: First Monday in April to First Monday in June

Client Report*

Reporting Period: January 1st to December 31st

Submission Period: First Monday in April to First Monday in June





Data Cleaning & Processing

Client-Level Data

At the end of the ADR submission period, HAB performs the following actions:

- 1. Clean and transform individual client records
- **2.** Compute derived fields, including:
 - Application lag (days between receipt and approval)
 - Viral suppression indicator
 - Composite assistance type
- **3. Impute missing components**, such as:
 - Medication and insurance assistance indicators, as needed
- 4. Examine agreement among program assistance details





Client Demographics

- Several required demographic characteristics are collected and reported out to the public. This increases transparency, fulfills legislative requirements, and highlights program impact.
- The following are displayed prominently on the ADR:
 - Birth Year (Age)
 - Gender
 - Health Care Coverage
 - Federal Poverty Level Percent
 - Race
 - Ethnicity





ADR Client-Level DataCritical Data Elements

- Client Demographics
- Health Care Coverage & Medication Assistance Service(s) Flags
- Clinical Information





Health Care Coverage (Insurance) and Medication Assistance Services Flags

Insurance and medication assistance data elements are vital pieces of the ADR as they identify and describe how we're supporting our clients through the ADAP.

Insurance Assistance

- 1. ADAP pays the full insurance premium for the client
- 2. ADAP pays a portion of the insurance premium for the client
- 3. ADAP pays the medication copay/deductible/coinsurance for the client's medication

Medication Assistance

1. ADAP pays for a drug in full for the client





Critical Data Elements

Medication Assistance Flag

Medication Assistance (paid in full) is one of the two types of ADAP assistance extended to clients

• In ADR2021, 48.4% clients were reported as having medication dispensed.

Medication Dispensed Flag (ID25)

This flag requires a "yes" or "no" response for all ADAP clients enrolled at any time during the reporting period.

If Medication Dispensed Flag=Yes, then the medication **must** be listed in the client-level data file, containing:

- Client ID (ID2)
- National Drug Code (ID26)
- Dispense date (ID27)
- Medication days (ID28)
- Cost (ID29)





Critical Data Elements

Insurance Assistance Received Flag vs. Insurance Assistance TypeID

The Insurance Assistance Received Flag requires a "yes" or "no" response for all ADAP clients enrolled at any time during the reporting period.

If Insurance Assistance Received=Yes, then Insurance Assistance Type must be supplied

Insurance Assistance Received Flag (ID20)

This flag requires a "yes" or "no" response for all ADAP clients enrolled at any time during the reporting period.

Type ID (ID67)

- 1. ADAP pays the full insurance premium for the client
- 2. ADAP pays a portion of the insurance premium for the client
- 3. ADAP pays the medication copay/deductible/coinsurance for the client



Critical Data Elements

Clinical Information

The following clinical data elements are required for all clients:

- Viral Load Test Values and Dates (ID34, ID35)
- CD4 Test Values and Dates (ID32, ID33)

Viral suppression rates are constructed from the reported viral load and CD4 measures and test dates.



Starting with ADR2021, every viral load and CD4 test date during the reporting year must be reported.





ADR Client-Level Data Data Quality Issues

- Clinical Information
- Enrollment Status
- Client Demographics
- Health Care Coverage
- Medication Cost





Clinical Information – Viral Load & CD4 Count

ADR2021 Missing Rates

- 6.2% of clients enrolled as of the end of the reporting period did not have a viral load or CD4 test reported
- 11.8% of clients enrolled as of the end of the reporting period did not have a viral load record within the reporting period
- 18.1% of clients enrolled as of the end of the reporting period did not have a CD4 record within the reporting period

From recipients' comments in the XML file and additional evaluation, HAB noted a few difficulties surrounding these reporting requirements:

- Impact of COVID-19 on testing and results
- Staff and supply shortages
- Data importing issues

In most instances, establishing and implementing data sharing with HIV surveillance can assist with reducing these missing data.

Ryan White HIV/AIDS Program

Enrollment Status

ADR2021 Issues

- 1,361 clients were missing a "new client" flag
 - All clients who were enrolled at any time during the reporting period, regardless of the client's enrollment status at the end of the reporting period need to have a "yes" or "no" response
 - New clients need to meet BOTH criteria:
 - 1. Applied to your state RWHAP ADAP for the first time ever AND
 - 2. Met your state RWHAP ADAP's eligibility criteria during the period for which you are reporting
 - ** If a client meets BOTH of these criteria, you will report "yes" for this flag
- 917 clients were marked 'Enrolled, services not requested', but service flag(s) were reported as "yes"
 - Not all clients will use services, and this is fine, they are still enrolled
 - However, if you report that services were used by a client, they should be reported as "Enrolled, receiving services"

Enrollment data is used to monitor program compliance and performance.





Client Demographics

ADR2021 Missing Rates

Field	Missing Count	Missing Rate
Race	9,852	3.4%
Ethnicity	1,529	0.5%
Gender	0	0.0%
Federal Poverty Level	4,544	1.6%
Health Care Coverage	3,989	1.4%





Data Quality Issues (cont.)

Client Demographics

Race & Ethnicity ID4 & ID5

RWHAP ADAPs are <u>required</u> to report race and ethnicity for each client based on each client's self-report:

- "Unknown" is **not** a response option for the race/ethnicity subgroups
- But, if you do not have these data for a client because they either declined to answer or the self-report is missing, this element should be left blank and the data will be MISSING

Gender "GenderId" (ID6)

RWHAP ADAPs are <u>required</u> to report gender for each client because it is used in the creation of each client's eUCI:

- Gender responses CANNOT be blank/missing
- But, if you do not have that selfreport, and the categories listed in the instruction manual do not assist in classifying a client, UNKNOWN is a valid response option





Health Care Coverage

When reporting Health Care Coverage (insurance) for a client:

- Ensure that "other plan" is <u>not</u> reported when the ADAP pays the premium for clients' insurance coverage
- "Other Plan" means the client has an insurance type or third-party coverage other than those listed in the instruction manual

Example #1:

If the RWHAP ADAP paid the employee part of an employer-sponsored plan, you'd report:

"PRIVATE – EMPLOYER"

Example #2:

If the RWHAP ADAP paid a premium for a non-employer sponsored plan, report:

"PRIVATE – INDIVIDUAL"





Considerations & Conclusions

Don't forget to utilize TA and other resources (Check Your XML, Upload Completeness Report, etc.) to avoid common data quality issues!

Respond to validation alerts, warnings, and errors, as needed throughout the reporting process

RSR Considerations

- All critical demographic and clinical information data for clients are necessary for assessment and evaluation
- Communicate with providers to ensure accurate reporting of RWHAP-related funding
- Confirm all reported services are tied to at least one funding source

ADR Considerations

- Ensure proper category use of race and ethnicity subgroups, gender, and other demographic characteristics (i.e., poverty level, and health care coverage)
- If there was a cost to an ADAP of less than \$1.00 but more than \$0.00, certify that the XML file submitted to HRSA HAB reports this cost as \$1.00
- Report every viral load and CD4 test date

Conclusion

- When RWHAP recipients report high quality data, HRSA HAB can use that data to justify program need & support people with HIV in the United States and its territories by:
 - Providing high quality programs through proper evaluation of services and support, monitoring progress toward national goals by examining clinical information patterns, disseminating quality data to RWHAP Recipients, and modifying data requirements in the future based off of client need

Medication Cost (ID29)



ADAP recipients should <u>only</u> submit medication records for which there as a cost to the ADAP.

- 5.8% of medication costs were reported as \$0.00 or NULL in ADR2021
 - If medication was dispensed to the client, but there was no cost to the RWHAP ADAP, do not report medication services.
 - But, if the cost of a medication is less than \$1.00 but greater than \$0.00, round the cost up to \$1.00 for reporting purposes (whole number amounts).
- **Example**: some state data systems automatically change any medication cost less than \$1.00 to \$0.00. It is fine that your system does this, but make sure that change does not happen in the file submitted to HRSA HAB as that is incorrect.

This will ensure that the medication assistance is properly recognized.



TA Contact Information

TA Resource	Type of TA	
Ryan White Data Support 888-640-9356 Ryan White Data Support @wrma.com	 RSR and ADR-related content and submission questions; Interpretation of the RSR and ADR Instruction Manuals and HAB's reporting requirements; Instructions for completing the RSR Recipient and Provider Reports and ADR Recipient Report; and Data validation questions. 	
The Data Integration, Systems, & Quality (DISQ) Team Data.TA@caiglobal.org Sign up for the DISQ listserv Submit a DISQ TA Request	 Data reporting requirements; Extracting data from systems and reporting it using the required XML schema; TRAX and the encrypted Unique Client Identifier (eUCI) Application; and Data quality issues. 	
EHBs Customer Support Center 877-464-4772 Submit an EHBs TA Request	 RSR and ADR software-related questions; Electronic Handbooks (EHBs) navigation; EHBs registration; EHBs access and permissions; Performance Report submission statuses. RSR and ADR Web System navigation. 	
CAREWare Help Desk 877-294-3571 cwhelp@jprog.com Join the CAREWare listserv	 How to generate the XML file from CAREWare correctly; How to view a sample client summary file; and Creating custom reports. 	





Thank you!

Q/A from the chat and/or live







Contact Information

Matthew Kenny, MPH & Nicole A. Viviano, MA

Statisticians, Division of Policy & Data (DPD)

HIV/AIDS Bureau (HAB)

Health Resources and Services Administration (HRSA)

Emails: mkenny@hrsa.gov & nviviano@hrsa.gov

Phones: (301) 443-9137 & (301) 480-7380

Web: hab.hrsa.gov





Connect with the Ryan White HIV/AIDS Program

Learn more about our program at our new website: www.ryanwhite.hrsa.gov



Sign up for the Ryan White HIV/AIDS Program Listserv: https://public.govdelivery.com/accounts/USHHSHRSA

https://public.govdelivery.com/accounts/USHHSHRSA/signup/29907





Connect with HRSA

Learn more about our agency at:

www.HRSA.gov



FOLLOW US:











