From Database to Data Reports

Use of ARIES Client Level Data in HIV Planning Council Annual Utilization Reports

Presented to the Austin Area Comprehensive HIV Planning Council
July 30, 2013

By Cynthia Gail Manor, B.A.
Data Manager/System Support Technician
City of Austin Health and Human Services Department
HIV Resources Administration Unit
512.972.5076 ~ cynthia.manor@austintexas.gov
Website: www.AustinHIV.com

Welcome/Introduction

Primary Responsibilities

- ARIES Technical Assistance
- Ad Hoc Data reporting and analysis
  - ❖ Planning Council Reports
  - ❖ Grant Application Data
  - ❖ Client Satisfaction Surveys
- Ryan White Services Report (RSR)
- AustinHIV.com website

3   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Overview

- ARIES background information
- Data Collected
- ARIES Data Entry Screens
- Agency-level Reporting
- HIV Planning Council Annual Utilization Reports
- Reporting Challenges
- Conclusion

4   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

What do you know about ARIES?

Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

About ARIES

- Developed by State of California, the County of San Diego, the County of San Bernardino, and the State of Texas
- Managed in Texas by the Department of State Health Services
- Implemented by Austin TGA in 2006

- Web-based
- Online
- Real-time

Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Austin Data

For the period March 1, 2008 through February 28, 2013

- 558,206 individual service delivery records entered or uploaded into ARIES
- 4,615 unduplicated clients

On average, between 80-85% of Austin TGA clients share their ARIES data cross agencies.

7   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Data Collected

Demographic

Clinical

Services

Case Notes

Needs Assessments

Care Plans

Referrals

8   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Data Collected in ARIES

Demographic	Clinical	Services
• Race	• HIV Status	• Date
• Ethnicity	• CD-4	• Funding Source
• Gender	• Viral Load	• Contract
• DOB	• STI/Hepatitis	• Service Category
• Income	• Immunizations	• Units
• Poverty Level	• TB	• Cost
• Insurance		
• Sexual Orientation		

9   Use of ARIES Data in HIVPC Annual Utilization Reports

July 30, 2013

ARIES Data Entry Screens

Screens from ARIES Training/Prototype Site

* Client data on the following slides is fictitious

10   Use of ARIES Data in HIVPC Annual Utilization Reports

July 30, 2013

Demographics

Demographics

Agency Enrollment

| DEMO-GRAPHICS | ELIGIBILITY | PROGRAMS | MEDICAL | MEDICATIONS | RISK & ASSESSMENTS | CARE PLAN | CASE NOTES | SERVICES | CUSTOM DATA |

| CONTACT INFO | DEMOGRAPHIC DETAIL | LIVING SITUATION | AGENCY SPECIFICS |

Joe N Brown

Agency Specifics Edit

Share Data: Yes
Agency Name: Clear View Mission
Agency Status: Active as of 3/4/2010
Reason for Status Change:
Agency Enrollment Date: 3/4/2010
Referral:
Client ID1: 1221-A
Client ID2:
Agency User Field 1:
Agency User Field 2:

Enrolled at

Agency Name	Agency Status
Clear View Mission	Active as of 3/4/2010

13   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Medical

| DEMO-GRAPHICS | ELIGIBILITY | PROGRAMS | MEDICAL | MEDICATIONS | RISK & ASSESSMENTS | CARE PLAN | CASE NOTES | SERVICES | CUSTOM DATA |

| BASIC MEDICAL | MEDICAL HISTORY | OB/GYN & PREGNANCY |

Joe N Brown

Basic Medical Edit

Primary Medical Care: Federally qualified health center/hospital
Provider and Last Visit Date: David Powell;
Primary HIV Care: Federally qualified health center/hospital
Provider and Last Visit Date: David Powell;
CDC Disease Stage: CDC-Defined AIDS, from Medical Record
Acuity: Austin TGA Non-medical, Raw Score 1 Level 1 (Other), dated 6/18/2013
Medically unable to work:
Current Weight:
Usual weight:
AIDS Diagnosis: 8/4/2007 (per Medical Record in Travis TX)
Year First Tested HIV+: 2000
Partner Notification Offered:
 # Partners to be notified by client:
 # Partners to be notified by health dept.:
Date health dept. notified:
Other Chronic Medical Conditions:

AIDS Condition	Diagnosed
CD4 Count less than 200 or CD4 Percent less than 14	8/24/2007

14   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Medical

Services

Services

Client: Brown, Joe
Staff *: Manor, Cynthia
Date of Service *: 5/1/2013
Contract Name *: 13-14 Part A
Program *: Ryan White
Primary Service *: Case Management (non-medical)
Secondary Service *: Case Management (non-medical)
Agency Subservice *: Case Management (non-medical)
Units of Service *: 4.00 @ $ 10.00 per 15 Minutes = $ 40.00 Total
Client Payment / CARE/HIPP Co-Payment *
Actual Minutes Spent
Service Notes

Save | Cancel | Deactivate

Site
Days to Next Service
Created Date

17 | Use of ARIES Data in HIVPC Annual Utilization Reports | July 30, 2013

Agency Level Reporting

Online Ad Hoc Reports
Data Exports

18 | Use of ARIES Data in HIVPC Annual Utilization Reports | July 30, 2013

Utilization by Service Category

5002 Utilization by Primary Category

Primary Service Category	Unduplicated Clients	Units	Total Cost
Case Management (non-medical)	2	15.00	150.00
Medical Case Management (including Treatment Adherence)	2	8.00	80.00
Medical Transportation Services	4	16.00	315.00
Mental Health Services	1	4.00	200.00
Oral Health Care	1	2.00	400.00
Outpatient/Ambulatory Medical Care	5	22.00	2,125.00

6 records, generated 6/19/2013 10:31:48 AM
Criteria: Service Line Item Service Date BETWEEN '3/1/2013' AND '6/19/2013' AND Funding Source Name IN ('Ryan White Part A')

Export

19   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Utilization by Demographics

5012 Utilization by Age Category

Age Category	Unduplicated Clients	Units	Total Cost
13-24	2	31.00	1,555.00
25-44	2	20.00	1,030.00
45-64	1	16.00	685.00

3 records, generated 6/19/2013 10:25:57 AM
Criteria: Service Line Item Service Date BETWEEN '3/1/2013' AND '6/19/2013' AND Funding Source Name IN ('Ryan White Part A')

Export

5011 Utilization by Household Poverty Level Category

Household Poverty Level Category	Unduplicated Clients	Units	Total Cost
<= Poverty Line	3	43.00	2,185.00
101 - 200%	2	24.00	1,085.00

2 records, generated 6/19/2013 10:26:56 AM
Criteria: Service Line Item Service Date BETWEEN '3/1/2013' AND '6/19/2013' AND Funding Source Name IN ('Ryan White Part A')

Export

Race-Major 1 by Ethnicity-Major Hispanic with Service - Contract Name=13-14 Part A

Race-Major 1	Yes	No	Unknown	UDC
Black	0	1	0	1
Other	1	0	0	1
White	1	2	0	3
UDC	2	3	0	5

20   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Data Exports

Analysis Tools

- Microsoft Access
- Microsoft Excel
- SPSS

Uses

- Desktop Monitoring Client Follow-up Lists
- Ryan White Services Report (RSR) Completeness Report
- Quality Management Committee's Return to Care Collaborative
- Other Miscellaneous Requests

21   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Questions?

22   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

HIV Planning Council Annual Utilization Reports

From Agency-Level to TGA-Level Reporting

23 Use of ARIES Data in HIVPC Annual Utilization Reports

July 30, 2013

Challenges

Report Development
Data Unduplication
Other

24 Use of ARIES Data in HIVPC Annual Utilization Reports

July 30, 2013

Report Development Challenges

The most critical part of the project is exporting and preparing the data. Problems in process can adversely affect the remainder of the project.

1. Exporting data from ARIES
2. Unduplicating demographic data across agencies
3. Standardizing service category names
4. Categorizing *New* and *Continuing* clients
5. Other miscellaneous categorizing of data
   - Race/ethnicity

25   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Report Development Challenges

6. Calculated Data
   - Age
   - Years since HIV diagnosis
   - Poverty level categories
   - Other
7. Living situation
8. Insurance

26   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Unduplication of Demographics

First	MI	Last	Shared?	DOB	Gender	Race	Ethnicity	Poverty Level	Year First HIV+
Cynthia	G	Anderson	No	7/21/1980	Female	White	Hispanic	200	2011
Joe	**N**	**Brown**	**Yes**	**9/17/1963**	**Male**	**Black**	**Non-Hispanic**	**129**	**2000**
Sandra		Cruz	Yes	12/31/1970	Female	Other	Hispanic	0	2012
Rick	C	Dawson	Yes	4/20/1989	Male	White	Non-Hispanic	150	2013
Chris	T	Doe	Yes	1/17/1990	Male	White	Non-Hispanic	121	1996

- *Cynthia Anderson* (above) is not shared
  - ❖ Receiving services at two or more agencies
  - ❖ May not have identical demographic information at these agencies
  - ❖ Can only use the demographic data of one agency
  - ❖ Unique Record Number (URN)

Unduplication of Demographics

- "New" and "Continuing" clients at the TGA level
  - ❖ Based on agency enrollment date
  - ❖ Many clients receive services at multiple agencies
  - ❖ Enrollment dates vary from agency to agency
  - ❖ Use of client's earliest agency enrollment date among
- Longitudinal Data
  - ❖ Living Situation
  - ❖ Insurance
  - ❖ Multiple *active* entries of the same category counted only once
  - ❖ Excluding out-of-date entries (insurance)

Other

- Changes in the ARIES Primary Service Category names
  - ❖ Most applicable to the 5-year reports
  - ❖ Example: *Ambulatory/Outpatient Medical Care* versus *Outpatient/Ambulatory Medical Care*

- Subservice category names standardized within an agency but not across agencies
  - ❖ *Social case management* versus *Case Management Non-Medical*
  - ❖ Standardization *within* agencies is critical to their ability to run historical reports

29 Use of ARIES Data in HIVPC Annual Utilization Reports July 30, 2013

Other

- Impact of changes to certain non-longitudinal data
  - ❖ ZIP code
  - ❖ County
  - ❖ Poverty level

30 Use of ARIES Data in HIVPC Annual Utilization Reports July 30, 2013

Revisiting PC Reports

Service Utilization by Ryan White Funding Source (#11)

Service Utilization by Demographics (#1)

31   Use of ARIES Data in HIVPC Annual Utilization Reports

July 30, 2013

Service Utilization by Funding

	Ryan White Totals		Part A		Part B		Part C		MAI	
Utilization by Primary Service Category and Ryan White Funding Sources for GY 2012-13	Clients	Units	Clients	Units	Clients	Units	Clients	Units	Clients	Units
TOTAL	**2,711**	**76,931**	**2,539**	**54,132**	**1,562**	**5,906**	**1,677**	**9,539**	**170**	**7,354**
AIDS Pharmaceutical Assistance (local)	1,194	9,605	1,117	8,341	513	1,264	.	.	.	.
Case Management (non-medical)	441	18,354	345	10,871	.	.	59	2,205	165	5,278
Food Bank/Home-Delivered Meals	367	3,120	367	3,120	.	.	.	.	.	.
Health Insurance Assistance - CARE-HIP Copays	48	337	25	160	35	177	.	.	.	.
Hospice Services	16	360	16	360	.	.	.	.	.	.
Insurance-Medical	70	432	52	336	54	96	.	.	.	.
Insurance-Prescription Drugs	16	18	10	10	7	8	.	.	.	.
Medical Case Management (including Treatment Adherence)	150	11,573	146	9,497	.	.	.	.	10	2,076
Medical Nutrition Therapy	174	3,674	174	3,674	.	.	.	.	.	.
Medicare/Medicaid Supplement	64	305	38	80	44	225	.	.	.	.
Mental Health Services	335	2,265	314	2,051	22	214	.	.	.	.
Oral Health Care	1,252	4,612	1,111	3,037	374	469	674	1,106	.	.
Outpatient/Ambulatory Medical Care	1,570	14,506	1,388	6,828	1,024	3,202	1,145	4,476	.	.
Outreach Services	38	38	38	38	.	.	.	.	.	.
Psychosocial Support Services	30	870	30	870	.	.	.	.	.	.
Substance Abuse Services - Outpatient	182	1,532	182	1,532	.	.	.	.	.	.
Substance Abuse Services - Residential	16	416	16	416	.	.	.	.	.	.
Transportation	629	4,914	467	2,911	56	251	149	1,752	.	.

32   Use of ARIES Data in HIVPC Annual Utilization Reports

July 30, 2013

Service Utilization by Funding
Report #11

- Basic utilization report
- Clients are counted once based on ARIES unique record number (URN)
  - ❖ How you "count" clients affects the results
- Some services have more than one category
  - ❖ Health Insurance and Premium Cost Assistance (insurance medical, medicare/medicaid supplement, etc.)
  - ❖ Medical Transportation versus Transportation Services (State Services)
  - ❖ HOPWA Housing

33   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Service Utilization by Demographics

| | | Transportation GY 2012-13 | | | | | |
| | | All Funding | | Part A | | MAI | |
		Clients	Units	Clients	Units	Clients	Units
Notice! Please review Report User Documentation for important information.							
Gender	**TOTAL**	**652**	**5,386**	**467**	**2,911**	**.**	**.**
	Male	445	3,493	316	1,997		
	Female	197	1,803	141	827		
	Transgender	10	90	10	87		
Age	**TOTAL**	**652**	**5,386**	**467**	**2,911**	**.**	**.**
	< 2						
	2 - 12	1	1				
	13 - 17	1	9				
	18 - 24	23	168	11	37		
	25 - 44	236	1,595	172	718		
	45 - 64	375	3,474	274	2,089		
	65 +	16	139	10	67		
Race/Ethnicity	**TOTAL**	**652**	**5,386**	**467**	**2,911**	**.**	**.**
	White (not Hispanic)	195	1,520	124	651		
	Black (not Hispanic)	290	2,517	231	1,614		
	Hispanic	161	1,316	109	638		
	American Indian or Native Alaskan	2	9	1	1		
	Asian	1	1	1	1		
	Pacific Islander	2	16				
	Other	1	7	1	6		
Household Poverty Level	**TOTAL**	**652**	**5,386**	**467**	**2,911**	**.**	**.**
	<=100 %	525	4,322	386	2,398		
	101 - 133 %	72	677	50	343		
	134 - 200 %	40	308	22	131		
	201 - 300 %	13	63	7	23		
	301 - 400 %	1	2	1	2		
	Over 400 %	1	14	1	14		
	Unknown						

34   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Service Utilization by Demographics
Report #1

- "Biggest" set of reports
- Customization calculated fields
  - ❖ Age categories
  - ❖ Poverty level
- Creation of new categories from multiple fields
  - ❖ Race + Ethnicity = Race/Ethnicity
- Impact of fields converted to longitudinal format
  - ❖ Living situation
- Excluding "unexpired" insurance data that may be out of date

35   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Report User Documentation

36   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Key Points in Interpreting the Reports

- Service delivery data is not always static
- Keep in mind implications of Data Unduplication
  - ❖ Some agency-level demographics may not match TGA-level demographics
- "New" and "continuing" are calculated as a function of *enrollment date*
- Residential and poverty level information is *not* longitudinal.
- Clients with more than one of the same "active" insurance are counted only once for that insurance.

37 Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Key Points in Interpreting the Reports

- Insurance Status
  - ❖ Is not tied to the service delivery module
  - ❖ Does not directly indicate whether insurance paid for any given service
- Race and ethnicity are captured separately in ARIES

38 Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Q & A

- **What challenges do you have using the reports?**
- **What concerns do you have about ARIES data?**
- **Offer your suggestions for improvement.**
- **Other discussion.**

39   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Conclusion

40   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013

Thank You

Cynthia Gail Manor, B.A.

Data Manager/System Support Technician

City of Austin Health and Human Services Department

HIV Resources Administration Unit

512.972.5076 ~ cynthia.manor@austintexas.gov

Website: www.AustinHIV.com

41   Use of ARIES Data in HIVPC Annual Utilization Reports   July 30, 2013