



# CHAMP

Comprehensive **HIV-AIDS** Management Program  
For the  
Ryan White Treatment Modernization Act  
Presented by FutureBridge Business Solutions

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## What is CHAMP?

The Comprehensive HIV AIDS Management Program (CHAMP) is a tool that manages services for people living with HIV/AIDS. CHAMP consists of three components: (1) administrative management, (2) anonymous client data base, and (3) outcomes reporting/quality management. CHAMP was developed in the Newark, New Jersey Eligible Metropolitan Area (EMA) and has been used successfully to manage services and finances, prepare federal reports, and provide outcome data used for the annual Ryan White application and other HIV/AIDS funding applications.

### ***Administrative Management***

CHAMP assists administrators in managing all aspects of HIV/AIDS services and spending.

- Implementation of unit cost contracting
- Contract monitoring – monthly comparison of actual to target spending
- Performance reporting
- Reallocation of unspent dollars during year to ensure grant is fully spent by year-end.
- Tracking of formula and supplemental dollars

### ***Confidential Client Database***

The information collected for each client consists of demographic and socio-economic data; medical data related to HIV-AIDS; delivered services (unit cost); referral and client assessment data. This information is used for the purposes of quality control (quality of service), statistical reporting and analysis, across the EMA.

The CHAMP system is anonymous, information collected in CHAMP cannot identify a client.

No information collected in CHAMP can be used to identify a client.

When collecting information on a client, CHAMP **No information identifying the client is collected in CHAMP.**

## ***Outcomes Reporting/Quality Management***

CHAMP produces reports and comparisons of performance and medical outcomes which can be used to improve medical outcomes and to complete the competitive annual Ryan White grant application.

- Compares services and epidemiological data to assess parity of services by gender, race/ethnicity, and geography.
- Measures service utilization by PLWHA in and out of medical care.
- Measures historical trends, e.g., change in CD4 and Viral Load levels.
- Measures Viral Load by detailed variables – gender, race/ethnicity, age with in ZIP code area – for more precise targeting of services.

CHAMP is a very useful tool for improving the quality of services that are delivered to clients. The data collected with CHAMP can be used to determine patient outcomes and demographic group outcomes. The outcome data can be used to apply for additional funding which helps to improve the availability of services to clients in the EMA. The outcome data is also used to determine if the clients are improving from the services they receive. Monitoring these outcomes can help the EMA monitors and planning council to redirect services to areas of need. This helps to efficiently allocate the services to ensure that there will be plenty of units available for the EMA clients. CHAMP is used to lookup services that were previously delivered to a client. This helps to prevent the duplication of services which in some cases can be dangerous to the client. CHAMP is also used to see where particular services are delivered. This feature helps case managers in referring clients to services that are located close to where the client lives. CHAMP helps the clients of the EMA in many ways.

## ***GENERAL BENEFITS OF CHAMP***

The data collected in CHAMP can be used for the following purposes:

- Document service to a unduplicated number of clients
- Document utilization of funds per service and sub-category
- Capture unmet needs
- Develop forecasts more accurately for future planning

- Monitor behavioral patterns
- Monitor effectiveness and compliance of contracts
- Enhance case management process
- Quality Management
- CADR Reports

## ***CHAMP History***

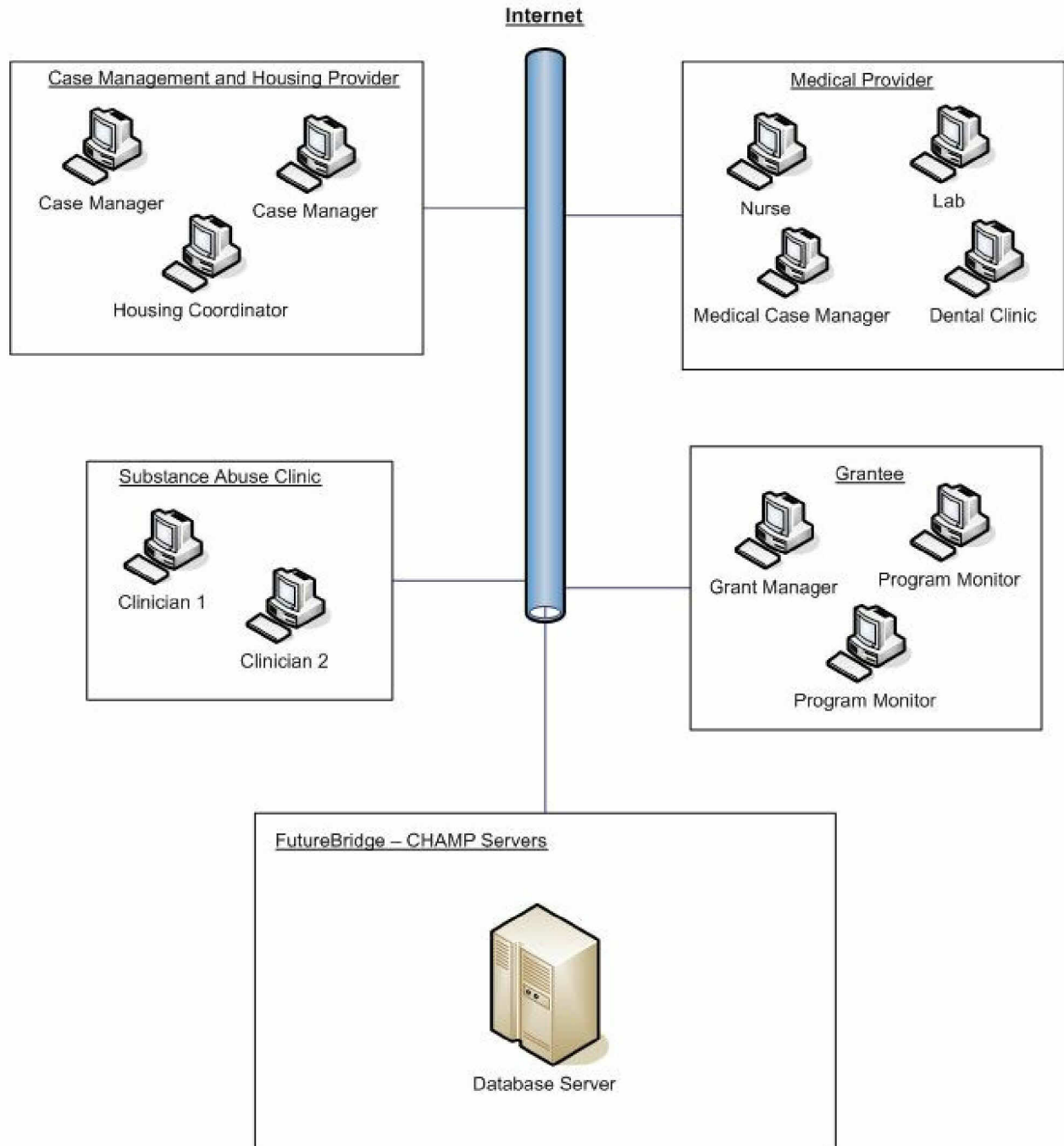
CHAMP was developed by FutureBridge Business Solutions and the City of Newark - Department of Health and Human Services as a tool to collect client data and unit cost data. During FY2005, CHAMP supported 276 users at 37 service providers that collected 265,000 deliveries of service to 7,279 clients.

CHAMP development began in 1996 and was partially implemented in production in Newark EMA during 1997. Since that time CHAMP has been enhanced and upgraded to keep CHAMP consistent with the priorities of the Ryan White Care Act.

**Beware of the cheap imitations!**

# How does CHAMP work?

CHAMP uses the internet to collect data from service providers. All the data is highly encrypted before being sent to the CHAMP server.



# Program Features

## GENERAL

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<b>User Based Security</b>	CHAMP is fully HIPPA compliant. Each user requires a login id and a password to use CHAMP. Application security is configurable and can be setup to allow on specific users to perform certain functions a view certain data.
<b>Online Data</b>	Data accessed in CHAMP will be provided by a web service from CHAMP data center. No local databases to maintain. EMA data can be accessed from anywhere the CHAMP application is installed provided the user has appropriate login and password.
<b>Unlimited Users and Installs</b>	CHAMP can be installed on an unlimited number of machines and used by an unlimited number of users at the service providers.
<b>Easy Installation</b>	The software can be downloaded from the internet and installed with the click of a button. Users only need installation rights their local computer to install the software. Once the software is installed a pass-code is issued by the help desk which enables the software.
<b>Editable Online Notices</b>	Users with permission can edit and broadcast online notices that must be confirmed by the users who read them. Good for EMA broadcasts of information to providers and users.

## DATA COLLECTION

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<b>Demographics and other Captured Data</b>	Birth Date, Birth place, Client Status, Gender, Ethnicity, Race, Hispanic Region of Origin, Sexual Orientation, HIV Status, Transmission Modes, Year of HIV Diagnosis, Year of AIDS diagnosis, Employment Status, Care Giver Support, Source of Primary Care, Living In, Living With, Income Source, Payment Source, Individual Income, Family Income, Family Size, Assigned Case manager, GAF Scale, Referral Source, Zip code
<b>HIV-AIDS Related Medical Data</b>	CD4, Viral Load, AIDS Defining Conditions, HIV Syndrome, Tuberculosis, Hepatitis C, Syphilis, Other STI, ART Therapies  Female Only – Pap Smear, Pelvic Exam, Pregnancy Data
<b>Data Sharing</b>	Case management, medical and other providers will be give specific permissions to edit fields that they are responsible for providing. Users will be

able to read data that has been provided by other professionals for whom the data was required. This will help to lesson the burden of data entry at the larger providers. Data sharing between providers is as possible with CHAMP.

<b>Instant History Fields</b>	All fields that change over time, i.e. (zip code, cd4, viral loads, employments status, HIV status etc.) maintain a history of the changes that the can view directly on the front-end.
<b>Required Fields</b>	Every field in CHAMP can be set as a required field. Required fields can also be set to expire after a given time period to force re-entry.
<b>Referral Screens</b>	Providers can use CHAMP perform electronic referrals.
<b>Lookup Feature</b>	Case managers, service providers and grantees can use the lookup feature in CHAMP to see what services were recently provided to a clients and where the client received them. This feature prevents duplication of service and can be used for quality management.

## **REPORTING**

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<b>Add-hoc Query</b>	The Add-hoc queries screen provides the ability to generate lists of clients at the provider level and EMA level based on a certain set of criteria. The queries can be saved for future use and shared with other users. The results can be printed or exported to Excel or SPSS.
<b>CADR Report</b>	CHAMP collects all data that is needed for sections 2, 3, 5 of the CADR report. Data for section 4 (HIV Testing and Counseling) when it will be required. Most of the data for section 6 and 7 is already collected in CHAMP and will be reported when Title III and Title IV providers begin to use CHAMP. Data is reported and manually entered at the end of the calendar year.
<b>Financial Reporting and Billing</b>	Expenditure, Reimbursement, Services Summary and contract monitor reports provide the ability for provides to bill the grantee directly through CHAMP.
<b>Client and Demographic Reports</b>	Client Profile report contains a graphical representation of clients serviced at a provider.
<b>Shared Data option on EMA aggregate reporting</b>	When executing aggregate reports, data will be consolidated from all providers in the EMA to produce an accurate data set for a particular client before the client is counted on an EMA aggregate report. Data is collected from providers

where the data has been required before using non-required data. The shared client data is used on the Grant Application Reports, CADR (Care Act Data Report), and EMA level outcome reports.

### **OLAP Database**

CHAMP includes a very powerful database for analytical processing called the OLAP database. (Online Analytical Processing). OLAP databases are pre calculated three dimension cubes that are used for fast pivot queries and cross- tabs. These cubes are used to generate cross-tabs and pivot tables for the CADR, grant application and most EMA wide. The cubes are very flexible and allow any demographic to be applied against any other demographic in seconds to show distinct counts, units or cost totals total for any combinations of populations served.

## **System Requirements**

The minimum system requirements for running the CHAMP software are listed below:

### **Hardware**

1.5 GHz or higher Intel Pentium 4 or Celeron Processor  
128 MB RAM ( *\*\* suggested 256 MB RAM for better performance* )  
40 GB Hard Drive  
17 inch monitor, standard graphics card  
Keyboard and Mouse

### **SOFTWARE**

Windows XP or  
Windows XP Professional Preferred, Windows 2000 (Service Pack 5),  
Windows 2003 Professional,  
Windows VISTA

### **CONNECTIVITY**

**High speed internet connection (cable modem, DSL, or T1 – corporate network), *dial-up connections not supported.***

## **Sample Screens**

The following pages include a few sample screens the CHAMP 3.2 system.







**AdHoc Query Generation**

**Query Builder**

Select a Category :  Show Admin Fields      Select a Query : [New Query]

DirectService

- Billable Units
- Contract Program Name
- Delivered Date\*
- Delivered Units
- Employee
- NonBillableUnits
- Planned Units
- Service Type
- Sub Type

Between      3/1/2005

2/28/2006

\* Represents that the field has a filter set

     # of filters = 1

Display a sample of the first 10 rows

Client Alt ID	Client HIV Status
ASF359328	AIDS
ASF847602	HIV Positive, AID
AVM774129	HIV Positive, AID
BAM803724	HIV Positive, AID
BFF245706	HIV Positive, AID
BWM216128	AIDS
CGF879504	HIV Positive, AID
CJM885615	HIV Positive, AID
...	...

Total # of Rows 58       Manual SQL Override       Show SQL statement

# CHAMP 3.2 OLAP Database Sample



CADR...	All Cadr	CADR...	All Cadr	CADR...	All Cadr	CADR...	All Cadr	CADR...	All Cadr	CADR...	All Medic	CADR...	All Cadr
CADR...	All Cadr	CADR...	All Cadr	Case ...	All Value	CD4	All Cd4	CD4 ...	All Cd4	Client...	All Client	Contr...	All Contr
Ethni...	All Ethni	Fiscal...	All Mont	Funder	All Fund	Hard ...	All Hard	HIV S...	All Hiv S	Housing	All Value	Live In	All Live I
Medic...	All Medic	New ...	All New	Pay S...	All Pay S	Poverty	All Pove	Prima...	All Value	Provider	All Provi	Race	All Race
Refer...	All Refer	Regio...	All Regic	Resid...	All State	Servi...	All Servi	Servi...	All Servi	Age	Group A	Time ...	All Caler
Viral L...	All Viral I	Viral L...	All Viral I	Years...	All Activ	Meas...	Distinct						

	Gender		
Sexual Orientation	All Genders	Female	Male
All Sex Orientations	4,228	1,834	2,394
Bisexual	156	39	117
Heterosexual	3,144	1,547	1,597
Homosexual	432	36	396
Missing/Invalid Data	153	59	94
N/A (Pediatric)	197	100	97
Not Asked	16	8	8
Unknown	130	45	85

## **Sample Service Code and Subtypes**

The service code and sub-types listed below will be implemented in the Newark EMA for FY2007. Service codes and sub-types are configurable for each EMA/TGA.

Ambulatory Outpatient Health Services (Primary Medical)	GYN/Reproductive Medical Visit Laboratory Tests/Diagnostics Nurse - Initial Intake Nurse - Medical Visit Nurse - Phlebotomy/Lab Samples/Vital Signs Physician - Initial Interview/Medical Assessment Physician - Medical Visit
Case Management	Benefit Financial Counseling Chart Review Discharge Planning (Institution) Face to Face Initial Assessment Mental Health Assessment MICA Assessment Nutritional Assessment Phone Contact Prepared ADDP application Re-Assessment Referral to Core Medical Services Referral to Core Medical Services Follow-up Referral to Support Services Referral to Support Services Follow-up Substance Abuse Assessment
Day and Respite Care	Facility - Adult Facility - Child Home Care - Adult Home Care - Child
Direct Emergency Assistance	DEA Coordination Electric / Gas Bill Other Telephone Bill
Housing and Related Services	Coordination / Assistance Rental Assistance - Short Term Security Payment Transitional
Legal Services	Assistance with Wills / Legal Papers Bankruptcy Benefit Re-determination Discrimination Family Law / DYFS Guardianship Matters Housing Issues

	Other Legal Matters
Medical Case Management	Chart Review Hospital Discharge Planning Medical Appointment Follow-up Mental Health Assessment MICA Assessment Nutritional Assessment Prepared ADDP application Re-Assessment Referral to Core Medical Services Referral to Core Medical Services Follow-up Referral to Support Services Referral to Support Services Follow-up Substance Abuse Assessment Treatment Adherence Counseling (Individual) Treatment Adherence Counseling Program
Medications	HIV / AIDS Medication Non HIV / AIDS Medication
Mental Health Services	Group - Counseling Group - Family Counseling Group - Level I - Intensive Group - Level II - General Group - Level III - Supportive Individual - Counseling Individual - Family Counseling Individual - Level I - Intensive Individual - Level II - General Individual - Level III - Supportive Individual - MICA Individual - Psychiatric Mental Health Assessment MICA Assessment
Oral Health Care	Dental - Cleaning Dental - Consult Dental - Crown & Bridge Dental - Dentures Dental - Exam Dental - Extractions Dental - Fillings Dental - Oral Surgery Dental - Other Dental - Restorative Dental - X-Ray
Outreach	Homeless Other Prison / Jail Substance Abusers
Permanency Planning	None

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Substance Abuse Outpatient Care

Aftercare Counseling  
Counseling - Group  
Counseling - Individual  
Detoxification (Outpatient )  
Group - Counseling  
Group - Family Counseling  
Individual - MICA  
Initial Assessment  
Intensive Outpatient  
Laboratory Test / Diagnostics  
Medication  
  
Methadone Treatment  
Partial Hospital  
Psychiatric  
Substance Abuse Assessment

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Transportation

Bus / Train Passes  
Taxi Reimbursement  
Van / Agency based Transport