

Decision Support 2000+ and HIPAA



DS2000+ Project Team

SAB/DSCSD/CMHS/SAMHSA

Abt Associates Inc

MHSIP

NASMHPD/RI

The Work Group

Rensis Corporation

Stakeholders and Consultants

**Ron Manderscheid
Sarah Minden**

Dave Feinberg



What is today's agenda?

- What is *DS2000+* ?
- How does *DS2000+* improve information and quality of care?
- What does HIPAA require of you?
- How does *DS2000+* help meet your HIPAA requirements?
- A real life scenario and demonstration
- Open dialog with speakers

How does *DS2000+* help?

- Enhances capacity for recording, storing, analyzing, and reporting data
- Uses the web, existing information systems, software, and databases
- Facilitates reporting
 - CMHS Uniform Reporting System
 - MHSIP Consumer Report Card
 - 16 State Pilot Project
 - NRP Surveys
- Ensures compatibility with HIPAA standards
 - data elements: code sets and identifiers
 - transactions
 - privacy support
 - security support





What is *DS2000+*?



- ***DS2000+* is a unifying framework for mental health information**
 - informed by a public health model of care
 - links different kinds of information to enhance decision-making, communication, and quality of care
 - organizes the different kinds of information used in mental health into its component data sets

- ***DS2000+* is a recording system, NOT a mandated reporting system**



What is *DS2000+*?

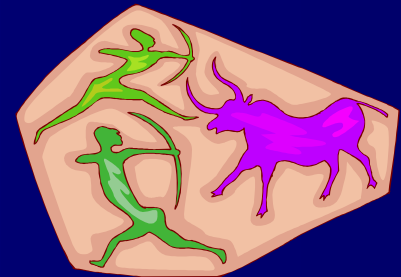
- *DS2000+* is a recommended set of data standards
- For each component data set, *DS2000+* recommends
 - core data elements for everyone
 - stakeholder-specific data elements for constituencies
 - unique data elements for special purposes
 - uniform definitions
 - common measures
 - consistent procedures for collection, analysis, reporting



DS2000+ Builds on Past Achievements

■ MHSIP Data Standards initiatives

- FN10: Data Standards for Mental Health Decision Support Systems**
- Enhancement to Meet the Needs of Children**
- FN11 Workgroup**
- MHSIP Consumer-Oriented Report Card**



■ Performance Indicator Projects

- CMHS, MHSIP, NASMHPD, NAPHS, ACMHA**

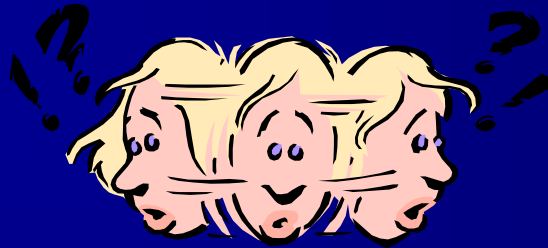
■ Outcome Roundtables for Adults and Children

■ Human Resources Workgroup

■ The Work Group for the Computerization of Behavioral Health and Human Services Record



DS2000+ Answers Basic Questions

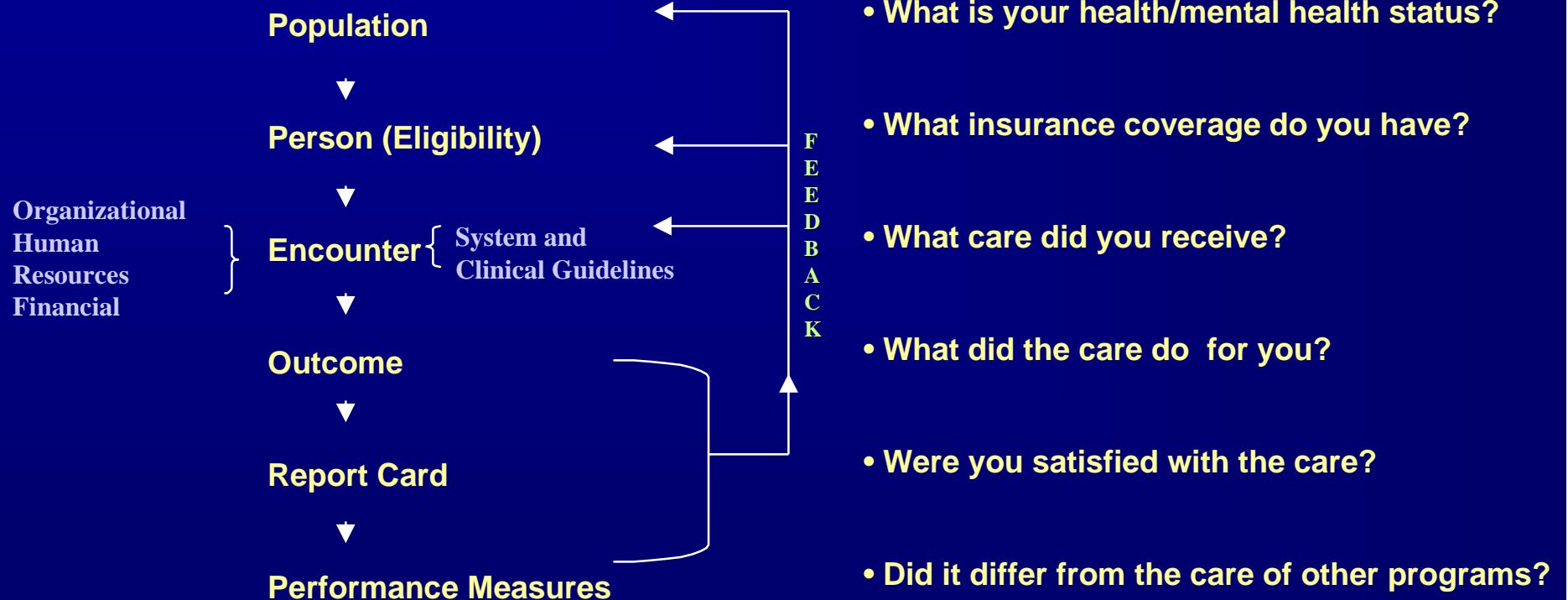


- What are we doing?
- What should we be doing?
- How well are we doing it?
- How can we do better?

DS2000+ Guides Person-level Decision-Making

COMPONENT DATA SETS

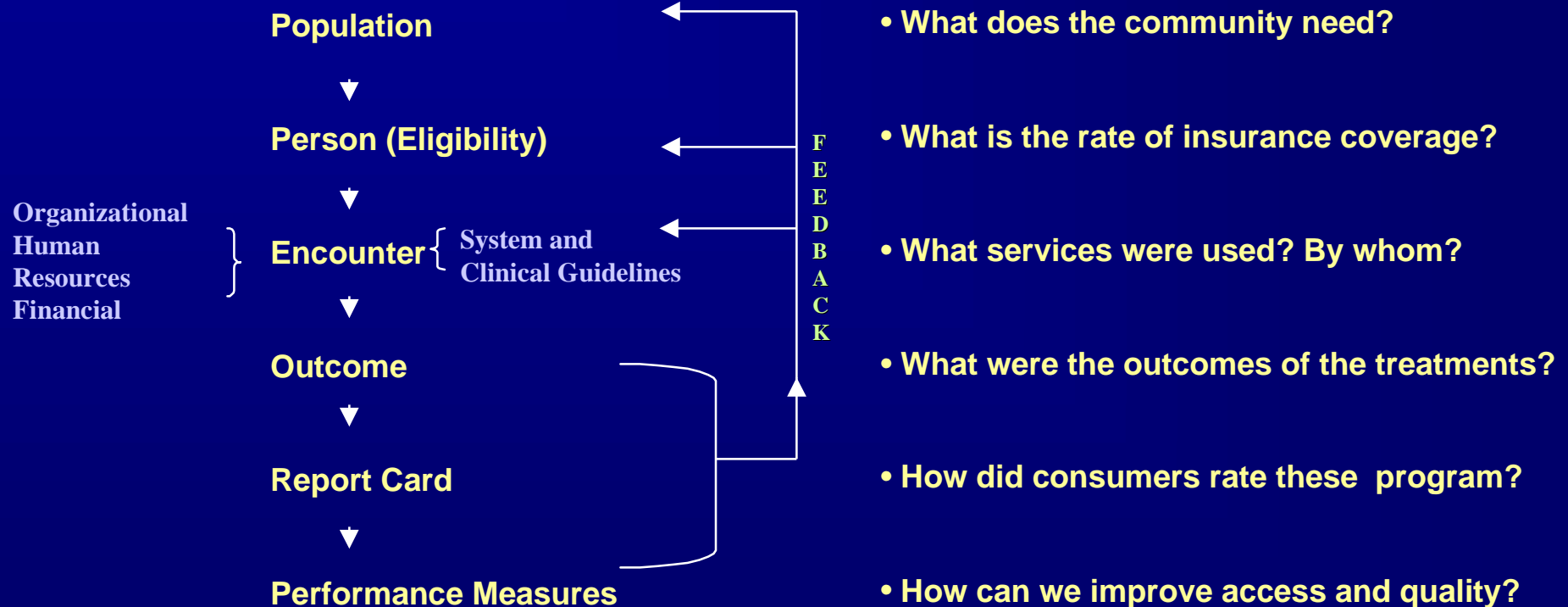
EXAMPLE QUESTIONS



DS2000+ Guides Decision-Making at Population, Plan, and Program levels

COMPONENT DATA SETS

EXAMPLE QUESTIONS





DS2000+ is a Web-Based System

INPUT PORTAL → **WEB** → **OUTPUT PORTAL**

- **Keyboard**
- **Palm Pilot**
- **Voice**

- **Core/Stakeholder-Specific Data Sets**
- **Electronic Patient Record**

- **Analyses**
 - Person
 - Provider
 - Program
 - Organization

LINKED ANALYTICAL SOFTWARE



INFORMATION LOGIC

DATA INFRASTRUCTURE: Common definitions and reliable Measures



DATA CONTENT: Core and stakeholder sets



DATA RECORDING: Internet-based, electronic patient record



DATA TRANSFORMATION: Linked analytic software



DATA REPORTING: Consumer outcomes, administrative data, performance measures



DS2000+ Technical considerations

- **Helps meet HIPAA security requirements**
 - Uses commercial-grade encryption
 - Digital Certificates
 - Full access audit trails
- **Scalable**
- **Fast**
 - Requires very little power on the desktop
 - Works with all major browsers
- **Compatible with most major information systems**
 - Uses XML translation
 - Open Standards

HIPAA Compliance by Providers

- The use of *DS2000+* does not obligate any provider to comply with HIPAA
- *DS2000+* use of HIPAA-compatible data elements does not obligate any provider to comply with HIPAA
- The transmission of any one of the HIPAA transactions [from *DS2000+* or any other provider computer system] obligates provider compliance with all of HIPAA
 - transactions -- when used **16 October 2002**
 - code sets -- when transacted **16 October 2002**
 - privacy **14 April 2003**
 - security to be established
 - identifiers to be established
 - ...

HIPAA-1 Transactions for Providers



DS2000+ HIPAA Compatibility



HIPAA

DS2000+

Eligibility Inquiry and Response

Subscriber information (name, address)

Person ID, name, address

Patient information (name, address)

Person ID, name, address

Institutional and Professional Claims

Patient information (name, address)

Person ID, name, address

Billing provider information (name, address)

Provider ID (link HR set)

Pay-to-provider information (name, address)

Provider ID (link HR set)

Service Facility Information

Facility ID (link org. set)

Payer information (name, address)

Source of payment

DS2000+ HIPAA Compatibility

HIPAA

DS2000+

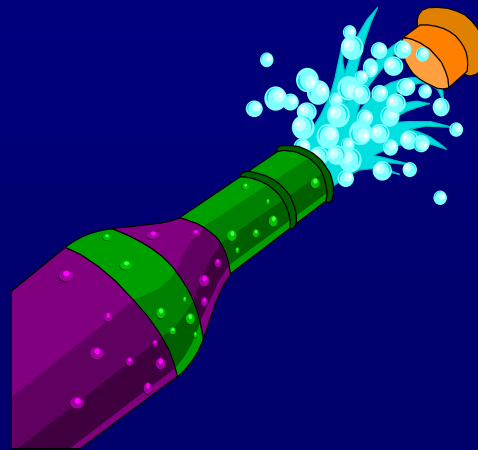
Institutional and Professional Claims

**Claim information (statement date, diagnosis,
claim submit identifier, monetary amount)**

**Date, diagnoses, claim ID,
total charge**



short break



DS2000+ Demonstration *



Demonstration will show how *DS2000+*

- uses web-based data entry
 - core person data
 - core encounter data
- interacts with HIPAA transactions
- produces information for
 - administrative functions
 - assessing consumer outcomes
 - evaluating system performance

★with help from Gordon Neligh and Nancy Callahan

Core Person Data Set



- Imagine you are in a community mental health center and it is January 7, 2003
- John Doe has just moved to the area and is looking for a new psychiatrist



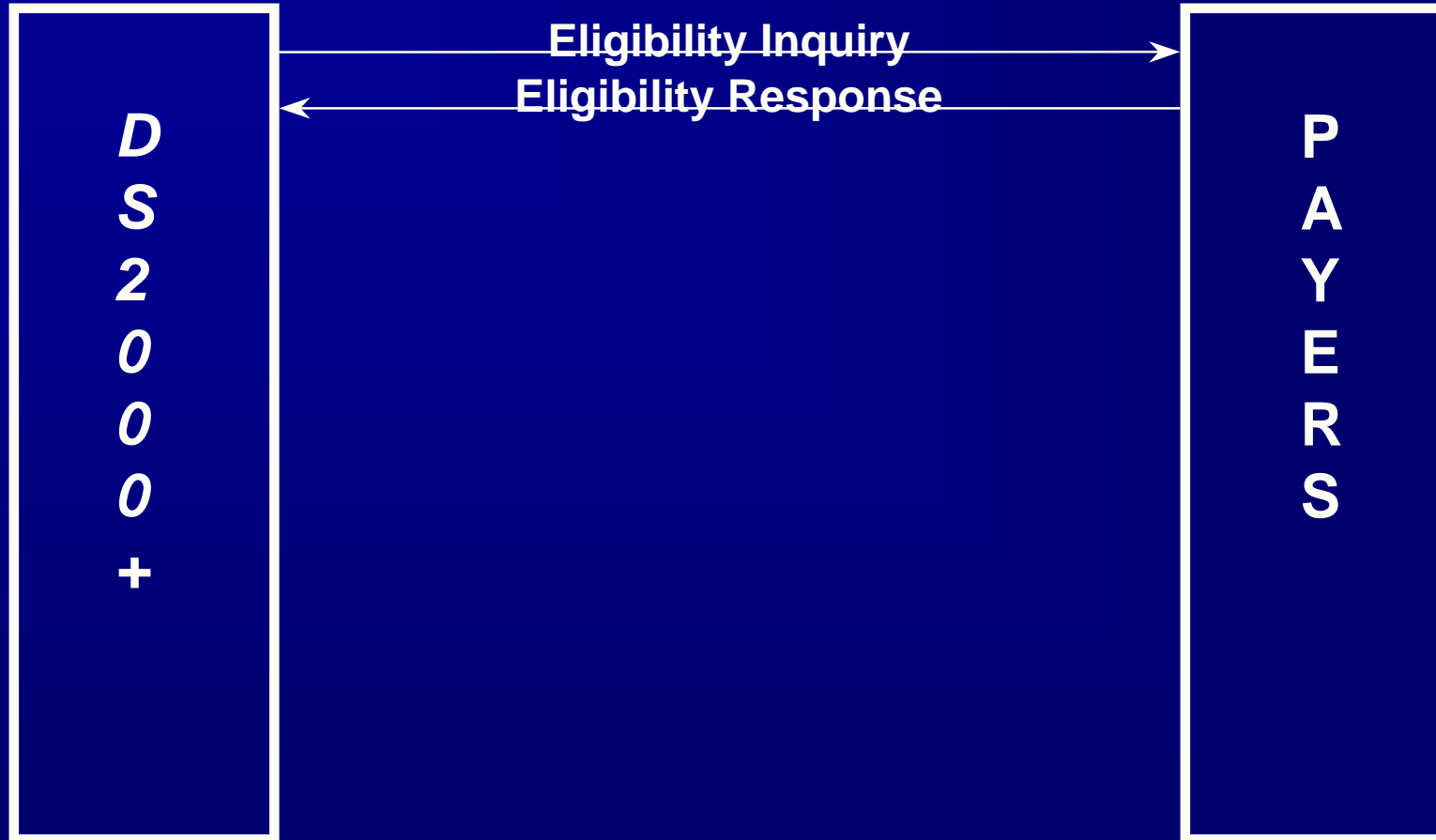
Core Person Data Set



- John is greeted by the center's intake worker who
 - tells John about the center's services
 - provides John with a copy of the center's HIPAA Notice of Privacy Practices, and obtains a HIPAA Privacy Consent plus any needed HIPAA Privacy Authorizations
 - causes an electronic Eligibility Inquiry to be transmitted to John's insurer
 - makes an appointment
 - asks John to provide the center with some basic information about himself



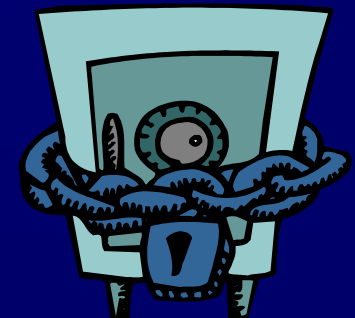
DS2000+ Core Person Data Set permits HIPAA Eligibility Inquiries and Responses



***DS2000+* Core Person Data Set**



- **The intake worker tells John that**
 - the center uses *DS2000+* for all its information needs
 - the information is secure and his privacy is fully protected
 - his approval is required for any information to be entered
 - his psychiatrist will explain *DS2000+* in more detail
- **She logs onto the secure *DS2000+* website on her PC**
 - other center staff use lap-tops or hand-held devices





Welcome to the DS 2000+ Demonstration Site

DS2000+ is a unifying framework for mental health information. It is a recommended set of data standards. DS2000+ is *not* a mandated reporting system. Its framework and data standards will improve the ability of the mental health field to collect, record, analyze, and interpret information. This improved information is critical to improving access and quality of care for consumers and their families.

Click the login button below to explore a demonstration.

[Login](#)

Click [here](#) for a recent presentation by the DS2000+ Project Team





Decision Support 2000+ Login

Welcome. Please enter your DS 2000+ ID and Password.

DS 2000+ ID

Sign On

Trouble logging in? Click [here](#) for help.



Welcome, Guest User

DS 2000+ Information and Resources

- Knowledge Exchange Network: MENTALHEALTH.ORG
- Mental Health Statistics Improvement Program: [MHSIP ONLINE](#)
- Health Care Financing Administration: [HIPAA HOME PAGE](#)

Consumer Database

- [Enroll New Person](#)
- [Create Encounter Record](#)
- [Create Claim Form](#)

Individual Reports

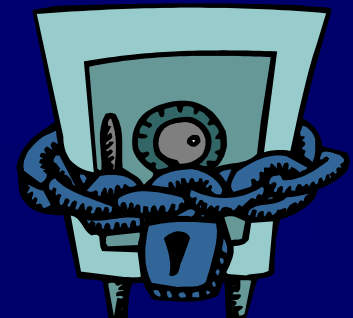
- [Treatment Responses and Outcomes](#)

Summary Reports

- [Treatment Costs All Categories](#)
- [Treatment Costs - Inpatient](#)
- [Treatment Costs - Outpatient](#)
- [Living Situations by Age](#)
- [Living Situations by Race/Ethnicity](#)

DS2000+ Core Person Data Set

- With John's approval, she adds his basic information to data received from the electronic Eligibility Response into the Core Person Data Set



Decision Support 2000+ Enrollment Form

First Name

Last Name

Living Arrangement

 24-Hour Residential Care Foster home Homeless/Shelter Institutional Setting Jail/Correctional Facility Other Private residence receiving support Private residence without support Unknown

Educational Level

Marital Status

Health Plan ID

(separate multiple entries with commas)

Activities of Daily Living

Problem dressing, bathing, or getting around in home?

 Yes No

Problem going outside the home alone to shop or visit doctor's office?

 Yes No

Problem learning, remembering or concentrating?

 Yes No

Works at a job or business?

 Yes No

Gender

 Female Male Unknown

Ethnic Affiliation

 Not Spanish/Hispanic/Latino Cuban Mexican, Mexican American, Chicano Other Spanish/Hispanic/Latino Puerto Rican

Racial Identification

 American Indian or Alaska Native Asian Indian Black, African American, or Negro Chinese Filipino Guamanian or Chamorro Japanese Korean Native Hawaiian Other Asian Other Pacific Islander

Ethnic Affiliation

- Not Spanish/Hispanic/Latino
 Cuban
 Mexican, Mexican American, Chicano
 Other Spanish/Hispanic/Latino
 Puerto Rican

- Guamanian or Chamorro
 Japanese
 Korean
 Native Hawaiian
 Other Asian
 Other Pacific Islander
 Samoan
 Some Other Race
 Vietnamese
 White

Date of Birth

Apr 03 1971

Legal Guardian or Conservatorship

Not applicable

Employment Status

Employed part time

Total Annual Income

\$12,000

Sources of Income

- Any public assistance or welfare payments
 Employment
 Interest and other
 None
 Other
 Railroad Retirement
 Retirement, survivor or disability pensions
 Social Security
 Social Security Disability (SSDI)
 Supplemental Security Income (SSI)

Health Status

Good

Date of Enrollment

Sep 20 2001

Save



[Main Page](#)

Decision Support 2000+ Encounter Record

Enrollment successful.

Person ID # 1524 Created.

Return to the [Main](#) Page.

***DS2000+* Core encounter data set**



- John then sees his new psychiatrist
- His psychiatrist explains how the center uses *DS2000+*
- Asks for John's approval to enter information about him into the Core Encounter Data Set

DS2000+ Core encounter data set



■ The psychiatrist explains that *DS2000+* is used in many ways:

- to generate claims for services
- to track individual outcomes to help consumers and providers make decisions about treatment
- to provide aggregate data from many consumers
 - to facilitate administrative decisions about service allocation and financing
 - to evaluate access, appropriateness, and quality of care
 - to identify possible reasons for problems in performance

■ The psychiatrist emphasizes that consumer approval is needed for all these activities



[Main Page](#)

Decision Support 2000+ Encounter Record

Person ID

1524

Search



[Main Page](#)

Decision Support 2000+ Encounter Record

Person ID # 1524 located.

Click [here](#) to create an encounter record for this consumer.

Decision Support 2000+ Encounter Record

*Creating Record for Person ID# 1524***Service Location**

Outpatient Hospital

Provider ID

32568

Type of Facility

Residential Treatment Facility

Facility ID

03235589-1

Type of Provider

Psychiatrist

*(See Provider [Taxonomy Codes](#) for more information.)***Date of Service**

Sep 20 2001

Duration of Service

60

*(in minutes)***Admission Date and Time**

Sep 20 2001 9 : 00 AM

 Not applicable**Service/Procedure Code**

9419

*(Enter the IDC-9-CM [Procedure Code](#))***Discharge Date**

Sep 26 2001 5 : 00 PM

 Not applicable**Legal Status**

Voluntary

Principal Diagnosis . *(Enter [ICD-9-CM](#) or [DSM-IV](#) Diagnosis Code)***Medication Code***(Enter [NDC](#) Code)***Other Diagnosis** . *(Enter [ICD-9-CM](#) or [DSM-IV](#) Diagnosis Code)***Functional Status***(Enter [GAF](#) Score)*

Billing Information

Expected Sources of Payment

- | | |
|---|---|
| <input type="checkbox"/> CHAMPUS | <input type="checkbox"/> Medicare |
| <input type="checkbox"/> CMHS Block Grant | <input type="checkbox"/> None |
| <input type="checkbox"/> Commercial insurance | <input type="checkbox"/> Other |
| <input type="checkbox"/> Employer | <input type="checkbox"/> Self pay |
| <input type="checkbox"/> Indian Health/Rural Health Service | <input type="checkbox"/> State/local government funds |
| <input checked="" type="checkbox"/> Medicaid | <input checked="" type="checkbox"/> Veterans Administration |
| | <input type="checkbox"/> Worker's compensation |

Health Plan ID*(separate multiple entries with commas)***Total Charge**\$ **Data Entry ID***(Type your ID here)*

Principal Diagnosis
 .
 (Enter [ICD-9-CM](#) or [DSM-IV](#) Diagnosis Code)

Medication Code

 (Enter [NDC](#) Code)

ICD-9-CM Section 5 Codes: Mental Disorders (290-319)

ORGANIC PSYCHOTIC CONDITIO

- o Includes: psychotic organic brain syndrome
- o Excludes: nonpsychotic syndromes of organic etiology
 - psychoses classifiable to 295-298 and with calculation, learning capacity, and judgement condition affecting the brain [e.g., following trauma]
- 290 Senile and presenile organic psychotic conditions
 - o Use additional code to identify the associated neurodegenerative condition
 - Alzheimer's disease (331.0)
 - Jakob-Creutzfeldt disease (046.1)
 - Pick's disease of the brain (331.1)
 - o Excludes: dementia not classified as senile, presenile, or organic
 - psychoses classifiable to 295-298 occurring in organic conditions (295.0-298.8)
 - senility with mental changes of nonpsychotic conditions (293.0-293.9)
 - transient organic psychotic conditions (293.0-293.9)
 - o 290.0 Senile dementia, uncomplicated
 - Senile dementia:
 - NOS
 - simple type
 - Excludes: mild memory disturbances, not a dementia (310.1)

FDA National Drug Codes

Lbl#	Prod#	Strength	Unit	Dosage	Trade N
-----	-----	-----	-----	-----	-----
45802	311	5.4;1.442	g;g	SOL	A B OTI
23731	6051			SOL	A C D F
23731	6075			SOL	A C D F
0003	0001	120;224;80	MG;MG;MG	INJ SOL	A C D M
0074	5671	100	MG/2ML	INJ PWD LYO F/SOL	A HYDRO
55154	0110	40	MG/ML	INJ PWD LYO F/SOL	A METHA
55154	0111	125	MG/2ML	INJ PWD LYO F/SOL	A METHA
22358	1208	300000	UNT	EMULSION	A MULSI
57652	1095			INJ SOL	A T O L
57652	1096			INJ SOL	A.T.O.
57652	1098	3	g	INJ SOL	A.T.O.
57652	1097	2	g	INJ SOL	A.T.O.
0254	9010	54;14	MG;MG	LIQ	AB OTIC
0603	7020	COMBO		LIQ	AB OTIC
0074	6109	50000	UNT/ML	INJ PWD LYO F/SOL	ABBOKIN
0074	6145	5000	UNT/ML	INJ PWD LYO F/SOL	ABBOKIN
0074	6111	5000	UNT/ML	INJ PWD LYO F/SOL	ABBOKIN
57920	714	10MG/5ML		INJ SOL	ABCIXIM
61799	101	5	MG/ML	INJ SUSP	ABELCET
51688	4209	10	g	SOL	ABG PUL
51688	4211	10	g	SOL	ABG PUL
0015	3011	100	g	INJ SOL	ABG PUL

The Global Assessment Functioning (GAF) Scale

	Sympt
1-10	Persistent dan hurting self or recurrent viole Serious suicid expectation of
11-20	Some danger others (e.g., s without clear frequently viol excitement) Gross impair communicatio incoherent or
	Behavior is co influenced by

Principa

23 . 14
(Enter [ICD-9-CM](#)

Other Diagnosis

23 . 09
(Enter [ICD-9-CM](#) or [DSM-IV](#) Diagnosis Code)

Miscellaneous

NOS = Not Otherwise Specified.
V62.3 Academic Problem
V62.4 Acculturation Problem
308.3 Acute Stress Disorder

Adjustment Disorders

309.9 Unspecified
309.24 With Anxiety
309.0 With Depressed Mood
309.3 With Disturbance of Conduct
309.28 With Mixed Anxiety and Depressed Mood
309.4 With Mixed Disturbance of Emotions and Conduct
V71.01 Adult Antisocial Behavior
995.2 Adverse Effects of Medication NOS
780.9 Age-Related Cognitive Decline
300.22 Agoraphobia Without History of Panic Disorder

Alcohol

305.00 Abuse
303.90 Dependence
291.8 -Induced Anxiety Disorder
291.8 -Induced Mood Disorder
291.1 -Induced Persisting Amnesic Disorder
291.2 -Induced Persisting Dementia

Functional Status

63
(Enter [GAF](#) Score)



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Decision Support 2000+ Encounter Record

Encounter Record Successfully Saved.

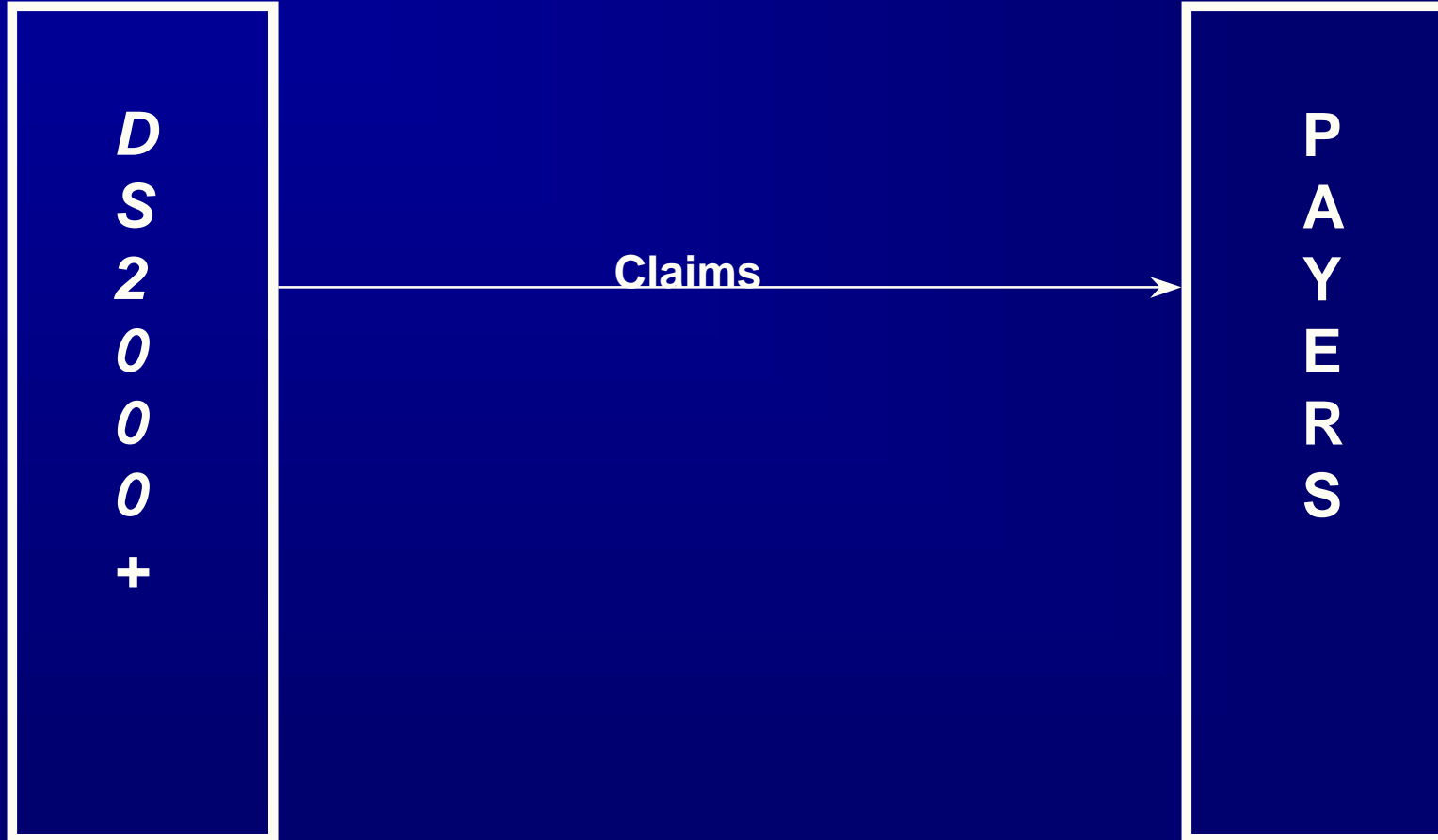
Return to the [Main](#) Page.

***DS2000+* generates HIPAA-compatible claims**

- The center uses *DS2000+* because it generates electronic claims that are compatible with HIPAA data standards



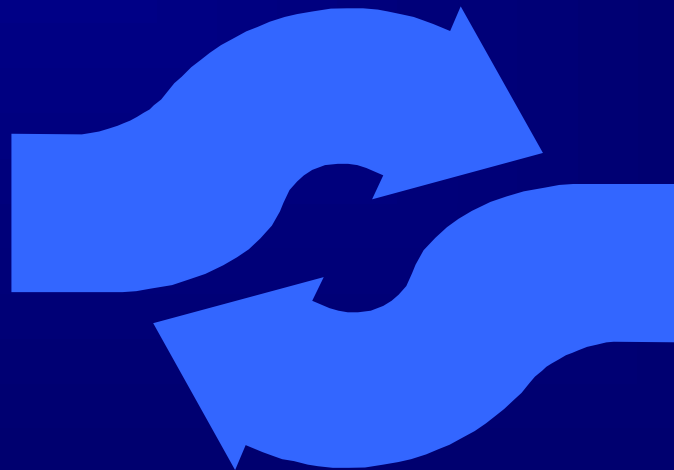
DS2000+ generates HIPAA-compatible claims



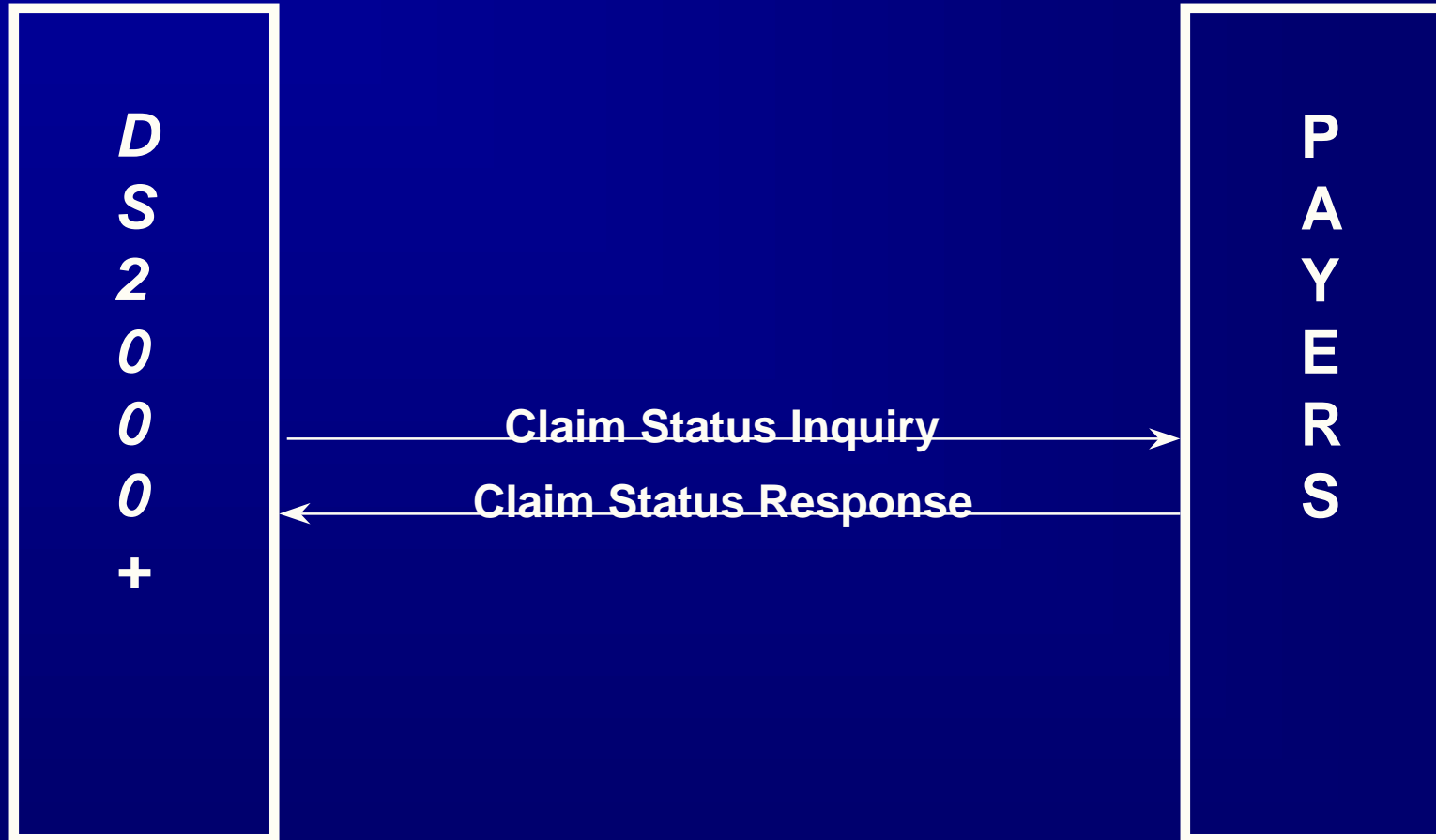
DS2000+ statuses claims



- The center uses *DS2000+* because it automatically, electronically, checks claims statuses on a routine basis



DS2000+ statuses claims



DS2000+ processes payments

- The center uses *DS2000+* because it automatically posts electronic claim payments (remittances)



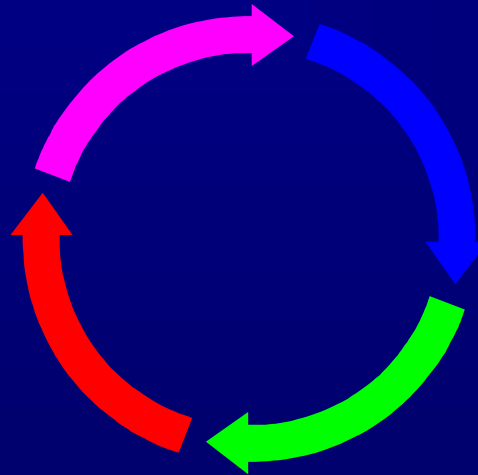
DS2000+ processes payments



DS2000+ Demonstration



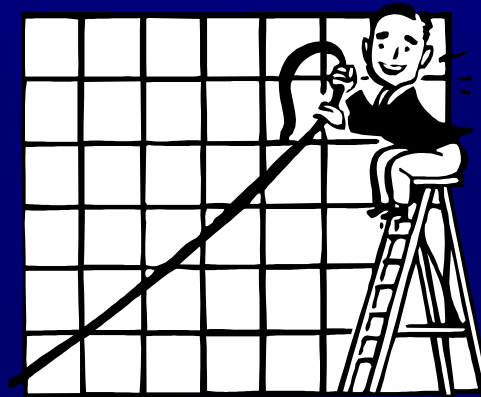
And the process continues cyclically with each of John's visits with his psychiatrist





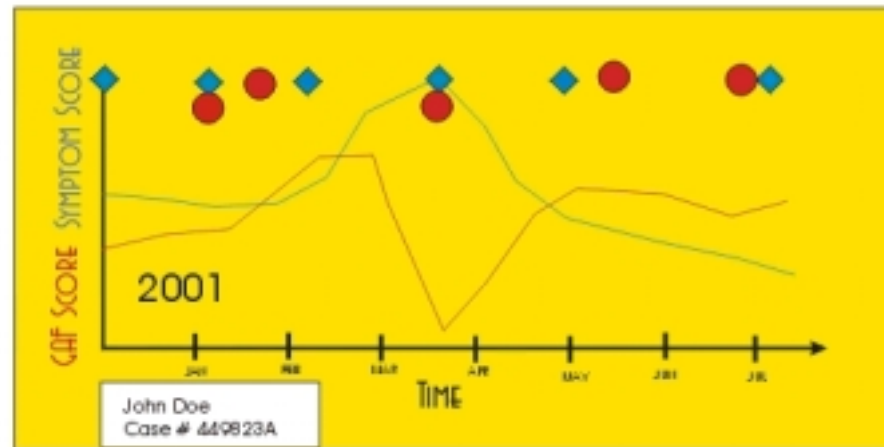
DS2000+ tracks treatment outcomes

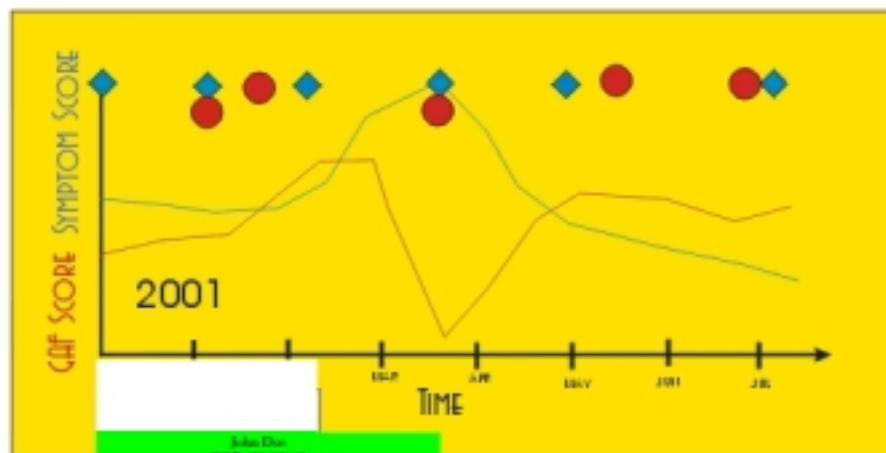
- After his first visit, John saw his psychiatrist once a month
- With John's approval, his psychiatrist continued to enter information about each visit into the Core Encounter Data Set
- In August, John and his psychiatrist decided to generate a treatment outcome report to help make decisions about John's treatment





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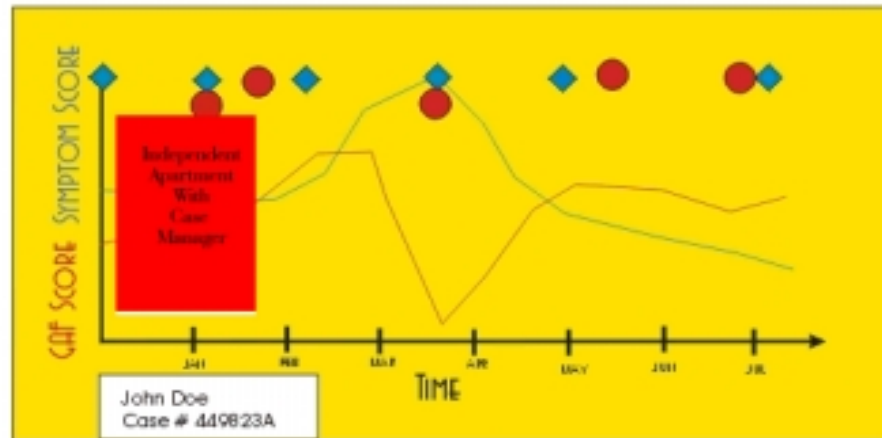




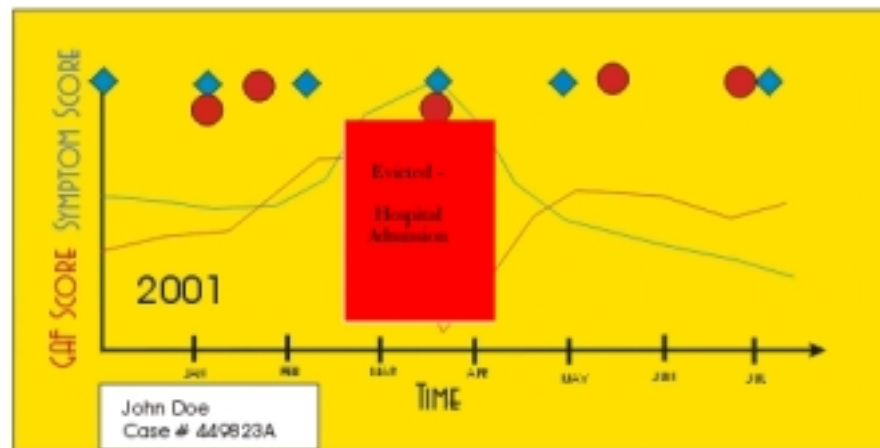
John Doe
DOB: 05/11/60
Address: 10007 Niles Drive
Missoula Valley, Wyoming 82090
Occupation: Retail Sales
Education: 2 years college
[Click here for additional records](#)



[Main Page](#)

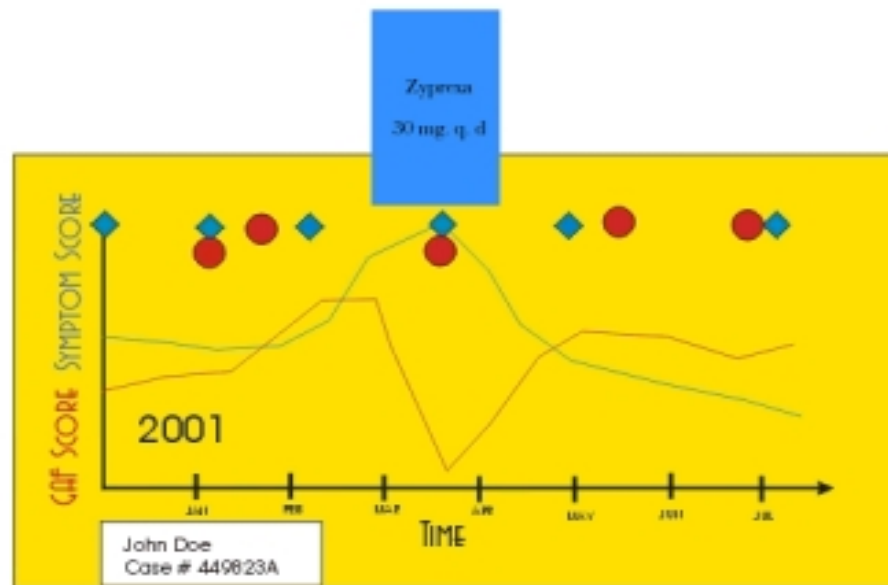


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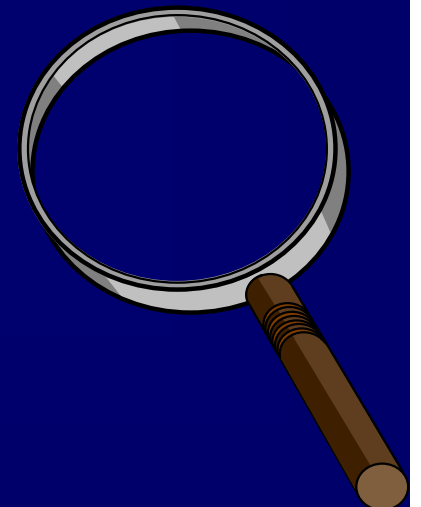


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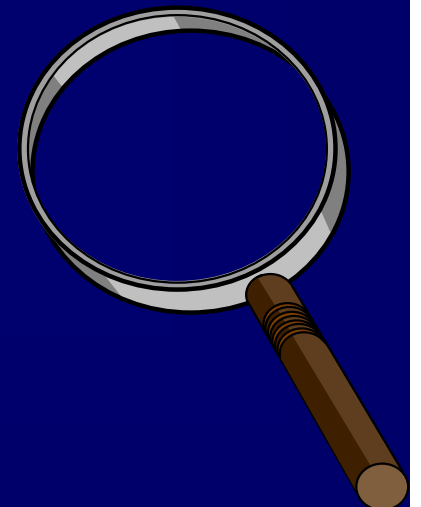
DS2000+ tracks treatment outcomes

- **After reviewing the treatment outcome report, John and his psychiatrist decided**
 - **that reducing his medication caused his symptoms to return**
 - **not to lower the dose any further**
 - **to work on returning to living independently in an apartment**



DS2000+ provides data for management and quality improvement

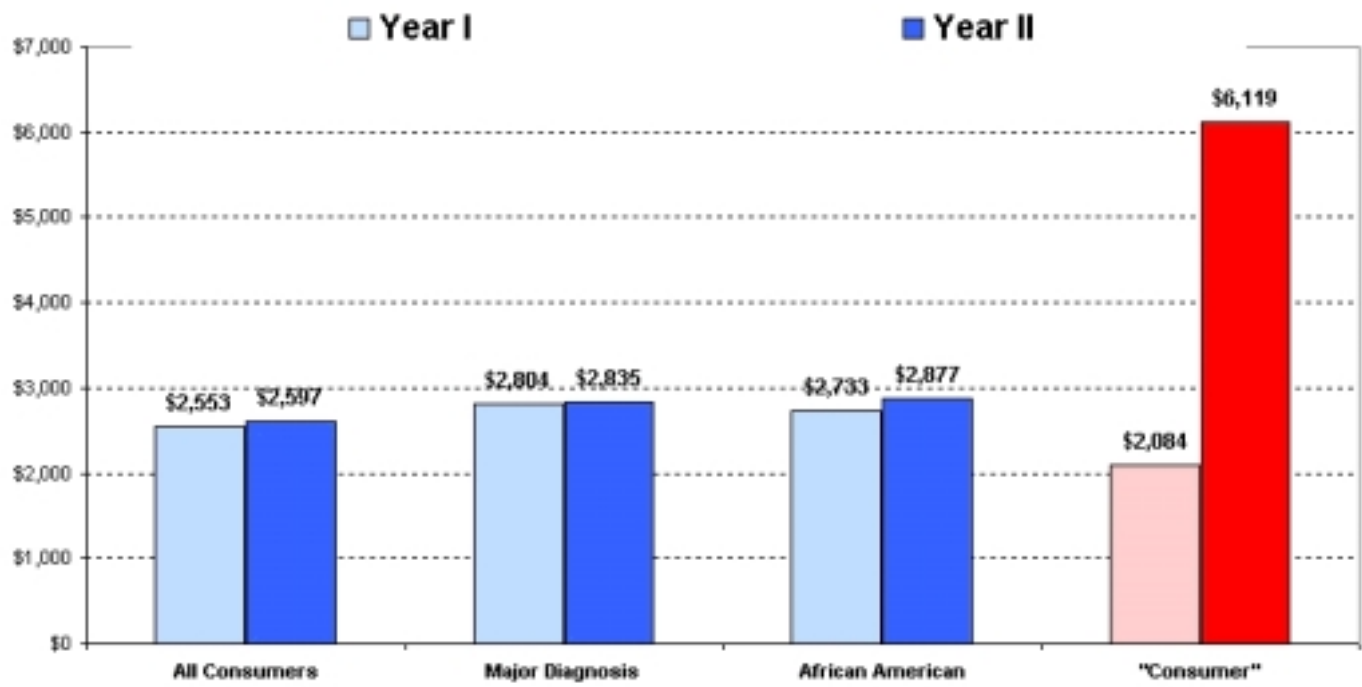
- *DS2000+* can be used to generate
 - administrative data
 - performance indicators





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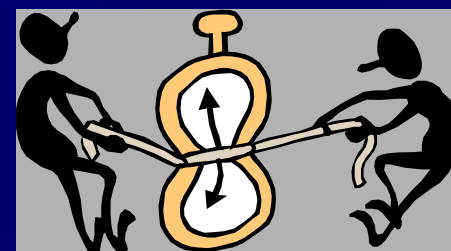
Annual Average Cost per Consumer
All Mental Health Services
Sample Year I and Year II





LOOKING AROUND THE CORNER Next Steps

- ◆ **Completion of Core and Stakeholder-Specific Data Sets (beginning with Person/Encounter)**
- ◆ **Support/TA for State mental health data infrastructure development**
- ◆ **Building partnerships with key fields**
- ◆ **Working with the Software Industry**
- ◆ **Embedding in the Internet**
- ◆ **Piloting of web-based reporting**
- ◆ **Assessment**



Decision Support 2000+ and HIPAA

Open dialog with speakers

Comments?

Questions?

Smart Remarks?

Ron Manderscheid

Sarah Minden

Dave Feinberg

