



The Health Outcomes Management System

HOMS (pronounced “homes”) — The Health Outcomes Management System — is a secure, integrated web-based system for managing and tracking a wide range of health outcomes. Developed and maintained by a team of clinicians and health outcomes researchers at the University of California, San Diego Health Services Research Center (HSRC), HOMS can be used in a variety of settings, from single office environments to large, multi-site health systems engaged in medical practice and/or clinical research. The goal of this manual is to provide an overview of the HOMS system, and to highlight features and capabilities available in HOMS.

Background

Medical settings have become more complex than ever. While the integration of medical care provides patients with more comprehensive treatment options, it has also resulted in an abundance of information health care providers must manage. In addition, tracking health care outcomes has become a critical component in the fields of medical care and research, as the need for establishing evidence based practices is emphasized. The increased need for tracking health outcomes, combined with the abundance of information that must be governed, means that clinicians need increasingly advanced and customizable tools to manage healthcare and research data efficiently. This increase in complexity also requires more effective communication across health providers and settings that collaborate to deliver integrated care. Health outcomes tracking systems should promote communication across these multiple settings to facilitate the integration of care.

In response to these changes in the healthcare delivery arena, the HOMS system was developed to help facilitate the tracking and reporting of health outcomes for individuals and health care settings. In addition to providing various reports for program improvement, the HOMS system acts as a resource for users to monitor individual progress of participants. Housed at the state-of-the-art San Diego Supercomputer Center and supported by our expert HSRC-based help desk, the HOMS system is equipped with a full-scale user management system to ensure secure data separation on an individual,

FEATURES

HIGHLY SECURE login and security systems that adhere to HIPAA and University of California standards can be customized to your organization's privacy needs.

CUSTOMIZABLE into an integrated multi-featured medical information system for tracking contacts, appointments, test results, dispositions, outcomes, progress notes, and more.

ENCRYPTED WEB FORMAT allows for use from multiple computers with minimal setup.

ACCESS CONTROLLED by limiting permissions for particular users.

ENABLES DATA CAPTURE across multiple sites and multiple studies.

DATABASE DRIVEN, CUSTOMIZABLE questionnaire text, question type, and rules for response validation.

SUBSTANTIAL CATALOGUE of prebuilt and custom question types and page layouts.

TRANSLATE FORMS into multiple languages to provide a more culturally appropriate experience for participants.

CUSTOMIZABLE NOTIFICATION and messaging system allows secure information sharing between users.

VARIETY OF REPORT TYPES can be designed to present individual participant data or aggregate data across sites or programs, with many types of custom reporting formats available.

USER-FRIENDLY dashboards provide a visual way to securely view live data results and reports.

DOWNLOADABLE DATA EXTRACTS can be used for data review or analytical purposes.

HIERARCHICAL REGISTRATION, approval, and management of all system users.

SUPPORTED by all major platforms/internet browsers.

COMPATIBLE with computers, tablets and mobile devices.

ABLE TO CONNECT to other medical information systems or operate as a standalone system integrated into an existing organization's system.

clinical, and administrative level. The HOMS system provides users a customizable dynamic experience to meet desired functionality through user-friendly interfaces. This includes the ability to customize forms for data collection tasks, and obtain a variety of reports on individual- and program-level data. The HOMS system can also merge and process data from other medical information systems, enabling powerful and meaningful analyses that can aid in the goal of improving services and promoting client wellness and recovery.

Technical Information

SYSTEM REQUIREMENTS — The HOMS system is supported by all major platforms/internet browsers, is compatible with computers, tablets and mobile devices, and is able to connect to other medical information systems. Additionally, standalone versions of the HOMS system can also be integrated into an organization's existing system should institutions wish to avoid using the internet. The HOMS support team will work your IT team to identify semantic and syntactic interoperability issues in order to create solutions.

SECURITY — HOMS features a highly secure login and security system that adheres to HIPAA, University of California, and FDA CFR Part 11 compliance standards. HOMS can also be further customized to include your organization's privacy needs. Additionally, the architecture of HOMS is highly extensible, allowing it to easily connect to other medical information systems or operate as a standalone system.

APPLICATION PROGRAMMING INTERFACE (API) — The HOMS system's ability to use APIs allows for the integration of external devices and their functionality. This makes it easy to efficiently share data and processes, which greatly improves the HOMS system's interoperability.

User Management

HOMS user management uses hierarchical registration, with each HOMS user (staff, clinicians, administrators, etc.) responsible for approving/denying access to the individuals registering under them. This allows for superior user management and data security accountability. The levels of the system hierarchy are completely customizable based on program needs. This feature is particularly important since a treatment team may consist of many individuals, each with different levels of training, experience, health care backgrounds and, correspondingly, access to patient records. The system will allow users to securely and collectively track client outcomes, allowing all users responsible for the client to get the most up-to-date, comprehensive view of the client's progress and needs. Clients can be registered in the system to multiple users, allowing different team members to access information seamlessly. In addition, navigation options in the HOMS system can be disabled during data entry modes to limit clients or other end users with limited access rights from accessing secure information.

HOMS users can allow lower-level users to access all participants or programs available to them, or they can select specific participants (patients, clients, research participants, etc.) or programs the user can access. In addition, reporting and other HOMS system features can be tied to the registration hierarchy, limiting the depth of access to the HOMS system for lower-level users. This hierarchy process assures that individual HOMS users only have access to the information they need to know, in line with HIPAA standards. Administrators can also limit or restrict modifications to assessments during data collection to protect the integrity of the outcomes. This feature is particularly important since a treatment team may consist of many individuals, each with different levels of training, experience and health care backgrounds.

Additionally, HOMS can be configured to allow clients to directly access their information using secure accounts that health providers create for them, or they create themselves (if appropriate). Client accounts can be used to enter and track client-reported information, or as a portal for clients to access their health information and recovery resources.

Participant Management

The HOMS system allows users to securely and collectively track individuals and groups of participants, allowing all users responsible for the participant to get the most up-to-date, comprehensive view of their progress. HOMS also features the ability to transfer registered clients within and between clinics or programs while retaining past assessment information in order to provide continuous data collection and track referrals.

PARTICIPANT REGISTRATION — Participants can be registered in the HOMS system to individual users, or to multiple users, allowing different individuals to access participant information seamlessly. The intake information collected during participant registration is completely customizable and can be linked to all subsequent participant information entered into the HOMS system. Participant information provided at registration can also be used as search fields for finding specific participants in the HOMS system.

SCHEDULING PARTICIPANT SERVICES — The HOMS system can keep track of previous appointments, and schedule future appointments with participants. In addition, notifications can be sent to users to remind them of future appointments or to suggest scheduling an appointment if a participant has not been seen in a specified amount of time. A benefit of the HOMS system is that any user with approved access to a specific participant can view and update their schedule. This allows for users at different agencies to collaborate on the scheduling of services.

INTEGRATED ELECTRONIC MEDICAL RECORD — The HOMS system is designed to be used as an electronic medical record system that securely stores participant data. Electronic files such as medical charts, images, practitioner notes, laboratory test results, and physical exams can be uploaded to a specific HOMS participant. Information and medical files uploaded to a specific participant can only be seen by HOMS users with access to the participant, allowing sensitive documents to be securely shared. The file sharing capability of the HOMS system allows clinicians and staff to have easy, yet secure, access to medical information that may not be otherwise available, helping support the integration of patient care.

REAL TIME EMERGENCY NOTIFICATIONS — When a participant reports time-sensitive information to the HOMS system, an immediate emergency notification can be automatically distributed to specific users. Emergency notifications are customized to fit the needs to each HOMS system. Previous examples of emergency notifications include suicide risk and alcohol/drug use. Emergency notifications are sent within the HOMS system, and users can also elect to receive email notifications in real time (compliant with HIPAA regulations). Emergency notifications can be sent to all users who have access to the participant, or only to specific users. Furthermore, within HOMS, users can send emergency notifications to other users with access to the participant.

RANDOMIZING PARTICIPANT SERVICES FOR RESEARCH PURPOSES — The HOMS system is capable of randomly assigning participants to specific services for clinical trials research or program evaluation purposes. When randomization is required, the HOMS system can be tailored to support the needs of different service or treatment conditions. Real-time randomization reports can be downloaded directly from the HOMS system for participant tracking purposes.

Data Collection and Management

Each HOMS system allows for a customizable data collection infrastructure. This data collection infrastructure allows multiple users to collect and enter data for an individual participant, helping integrate the tracking of care and examination of outcomes. Furthermore, data collection assessments are completely customizable in content and timeline to fit the needs of different providers and/or types of patients.

CUSTOMIZABLE ASSESSMENTS — Each HOMS system is able to customize how frequently assessments are administered as well as which assessments are administered at different time points. Assessment can consist of the same set of questions, or questions can vary across different assessments. The HOMS system can also add, customize, randomize, or skip questions based on a participant's previous assessments, specific question responses, or assigned group, program or site.

Within HOMS, users may opt to add an existing measure, or draft their own items to be included in the core assessment. HOMS employs a hierarchical adjustment of requirements such that an account with a higher access level can determine the core assessment, while lower access levels can add measures or items to the core assessment determined by the higher access level account. Thus, accounts with lower access level still have flexibility to collect extra data within the constraints of what is required by the higher level.

Since a user registered to a higher access level has the ability to change core requirements temporarily, they may also choose to add a one-time survey to the core assessment for a defined period of time. This is useful for scenarios when data collection is needed at a specific point in time rather than continually, such as collecting a yearly staff satisfaction survey.

COLLECTING AND ENTERING DATA INTO HOMS — Data can be collected from participants or users and input directly into the HOMS system, or data can be collected using paper assessments and entered into the HOMS system after completion. The HOMS system is capable of customizing how assessments are presented based on how data is being collected. For example, questions can be presented one at a time when data is being collected directly from participants or users, or questions can be provided all at once for data entry convenience. In addition, navigation options in the HOMS system can be disabled during data entry modes to limit participants from accessing secure information.

Although the data collection forms in the HOMS systems are ideal, the data collection forms from HOMS can usually be programmed into other Electronic Health Records such as Anasazi or Avatar by the programmers of those systems, and that data will flow into HOMS. This eliminates the need for busy staff to log into separate systems to fulfill their data entry requirements, while still preserving the availability of all the additional clinical and reporting tools that HOMS has to offer as well as the ability to aggregate the information that is entered into different Electronic Health Record platforms with each other and with the data entered directly into HOMS.

NOTIFICATIONS OF UPCOMING AND OVERDUE ASSESSMENTS — The HOMS system has an integrated notification system to alert users when an assessment will become due, and when an assessment is overdue. Notification rules can be customized based on program needs. For example, notifications can be set to go to all users registered in HOMS, or a specific group of users, such as a participant’s integrated care team.

The HOMS system also provides an “Assessment Progress Summary” report, which details how compliant a particular program or site is in administering assessments on time, as well as a detailed list of which participants are current or not current in their assigned measures. See Section VIII for more information.

DATA QUALITY CONTROL — The HOMS system allows users to review and edit previously entered data to help ensure data quality. Another way the HOMS system can help with the quality of the data entered is through validation, range rules, and missing value labels. Validation and range rules ensure that information entered into the HOMS system is appropriate and in the format needed. Any time information that is not in an appropriate format is entered into the HOMS system, or falls outside a range of possible values, participants or users will be informed of the issue and asked to re-enter their response to the question.

The HOMS system is also capable of differentiating between different sources of missing data (such as questions the participant chose not to answer or questions the participant may not have seen due to skip rules incorporated in an assessment). The HOMS system can provide labels to the different sources of missing data to help interpret responses—and non-responses—to assessments. Validation, range rules, and missing value labels are customized for each HOMS system.

Support

Each HOMS system comes with multiple sources of support to help facilitate the implementation and continued use of the HOMS system.

TRAININGS — HSRC staff provides both on- and off-site training options based on your program’s needs. Subject matter can range from general HOMS system training to specific training on implementing and interpreting outcome measures used in the HOMS system. In addition to on-site training, off-site webinars are also provided, which may be ideal for larger programs or programs with multiple sites.

HOMS HELP PAGE — The HOMS system help page provides a space for General HOMS and program-specific help documents, informational videos, and contact information. Contents of the HOMS system Help Page are customized to reflect program specific needs and are updated regularly.

PHONE AND EMAIL SUPPORT — HSRC provides HOMS system support during regular working hours. The HOMS system currently offers both phone support as well as general email support at HOMS@UCSD.EDU. Customized support (emails/hotlines etc.) is available based on individual program needs.

Measures Available for Use

The HOMS system currently hosts a catalog of 286 available measures, and is constantly expanding. HSRC strives to provide users with a wide array of reliable third party measures, while also specializing in the development and customization of both program specific and universal use measures.

TRANSLATIONS — The HOMS system is compatible with most languages and currently hosts certain measures in languages such as: Spanish, Farsi, Russian, Armenian, Chinese (Traditional and Simplified), Samoan, Korean, Tongan and Khmer. The HOMS system can easily handle other threshold languages because the system has already built-in features to manage most browser-supported alphabets. The system can also support text-to-speech capabilities for participants who have difficulty reading in their preferred language. HOMS audio screen reader recites questions and answer choices in a variety of languages and playback speeds allowing participants to complete their assessment without assistance. If your program has specific language needs, please contact us for further details on obtaining translations or text-to-speech availability.

MEASURES DISCLAIMER — HSRC respects and abides by all copyright restrictions, patent laws and intellectual property rights in regard to the use of outcomes tools and measurements. As such, while most of the measures listed are free for use for the general public, some may require additional fees, use restrictions, or licensing and/or use agreements. HSRC does not personally charge or profit from the use of any outcomes tools or measurement materials developed by a third party entity, but solely on materials developed and services rendered (and associated costs) by HSRC. HSRC will work with you to determine which measures are best for your program, provide expertise on user restrictions, and negotiate any necessary licensing and/or use agreements with the appropriate parties.

The HOMS system currently hosts a catalog of 286 available measures, and is constantly expanding.

This list represents the most commonly used measures currently available in HOMS. For a complete list of measures, or to inquire about using, creating, or adding a particular measure to HOMS, please contact us for further details.

Client Rated Mental Health
PROMIS
<ul style="list-style-type: none"> ◆ Emotional Distress -- Depression, Anxiety and Anger ◆ Alcohol-Alcohol Use ◆ Satisfaction with Participation in Discretionary Social Activities
CHOIS Recovery Supplements
My Mood Monitor (M3)
Recovery Markers Questionnaire (RMQ)
Brief Symptom Inventory (BSI 18)
Patient Health Questionnaire (PHQ)
Illness Management & Recovery (IMR)
DSM-5 Cross Cutting Measures
Clinician Rated Mental Health
Clinical Global Impression-Improvement
Hamilton Depression Rating Scale
Montgomery-Asberg Depression Rating Scale
Illness Management & Recovery (IMR)
Milestones of Recovery Scale (MORS)
Structures Clinical Interview for DSM-IV-TR Axis I disorders-Non-Patient Edition
DSM-5 Cutting Measures

Client Rated Physical Health
PROMIS
<ul style="list-style-type: none"> ◆ Physical Function ◆ Pain-Behavior ◆ Fatigue ◆ Pain Intensity ◆ Sleep-Related Impairment
Visual Analog Scale (VAS)
Instrumental Activity of Daily Living (IADL)
Physical Symptoms Checklist

General Quality of Life
PROMIS
◆ Global Health
QWB/QWB-SA
SF-12/SF-36
Perceived Quality of Life (PQoI)
EuroQol (EQ-5D)

Disease Specific Quality of Life
PROMIS
<ul style="list-style-type: none"> ◆ Asthma Impact-Pediatric ◆ Cancer: Physical Function, Fatigue, Pain Interference ◆ Sexual Function and Satisfaction
Gout Impact Scale (GIS)
Arthritis Impact Measurement Scales (AIMS)

PTSD
Life Events Checklist
PTSD Checklist-Military
PTSD Checklist-Subject
PTSD Checklist-Civilian
Posttraumatic Growth inventory
Mini International Neuropsychiatric Interview

Satisfaction
MHSIP Youth Services Survey for Youth and Families
Cornell Services Index
MHSIP Satisfaction Survey
USDHHS Health Center Satisfaction Survey

Substance Use
PROMIS
<ul style="list-style-type: none"> ◆ Alcohol-Alcohol Use ◆ Alcohol-Negative Consequences ◆ Alcohol-Positive Consequences ◆ Alcohol-Negative Expectancies ◆ Alcohol-Positive Expectancies
Alcohol, Smoking, and substance Involvement Screening Test (ASSIST)
Drug Abuse Screening Test (DAST)
Substance Abuse Treatment Scale Revised (SATS-R)

Stigma
PROMIS
◆ Neuro-QOL-Stigma
Internalized Stigma Mental Illness (ISMI)
King Stigma Scale

Youth Measures
PROMIS
◆ Pediatric Profile
Child & Adolescent Measurement System (CAMS) Youth and Parent Questionnaires
Children's Functional Assessment Rating Scale (CFARS)

...What information will help you serve your clients?

Reports

One of the most beneficial features of the HOMS system is the ability to analyze data and generate program level and individual participant reports in real-time. The current HOMS systems use four general types of reports and deliverables, as summarized below. However, reporting and deliverable options are customizable for each HOMS system.

AGGREGATE PROGRAM LEVEL REPORTS

Aggregate program and system level reports can be designed to describe a range of outcomes across several assessment periods and programs. Additional features such as complex formulas or graphs can be added with appropriate customization. The reports can also be designed to allow the user to specify a start date range, a length of measure, and an error rate to directly measure mean progress over a population in a given timeframe.

Additional program level reports can be built to provide a richer analysis for each specific study. The reporting system provides access to the most recent data, which can be retrieved globally and calculated immediately. Another possible option is to create a custom dashboard that pulls live data from the database. HOMS dashboard is equipped with the capability to run aggregate reports that provide users a quick snapshot of client information across an entire program, group of programs, or entire system for program level evaluation.

When looking at outcomes, HOMS not only has the ability to match cases and report outcomes within the same user access level, but also across different user access levels. The ability to control matching based on access levels can be useful in creating valuable metrics such as the percentage of people who show a Minimally Important Difference (MID)—the smallest change in an outcome measure that is meaningful to patients—which can be useful in sampling reports.

If cost information is available, HOMS can be programmed to auto-calculate and report cost information metrics. One such cost information metric that HOMS can calculate and report is Quality-Adjusted Life Year (QALY), which is often used in cost-utility analysis to calculate the ratio of cost to QALYs saved for a particular health care intervention.

INDIVIDUALIZED PARTICIPANT REPORTS

Participant-focused reports provide users with an up to date, comprehensive summary of outcomes that can be used to monitor individual participant progress or guide their treatment planning. Reports can be used to identify trends over time or can be shared with the participant throughout their treatment to facilitate their recovery by encouraging communication between people receiving and providing services.

COMPLIANCE REPORTING

Compliance reporting provides users with a valuable summary of assessment completion within a particular time period. Compliance reports can also monitor the length of time between completed assessments.

DATA DOWNLOAD

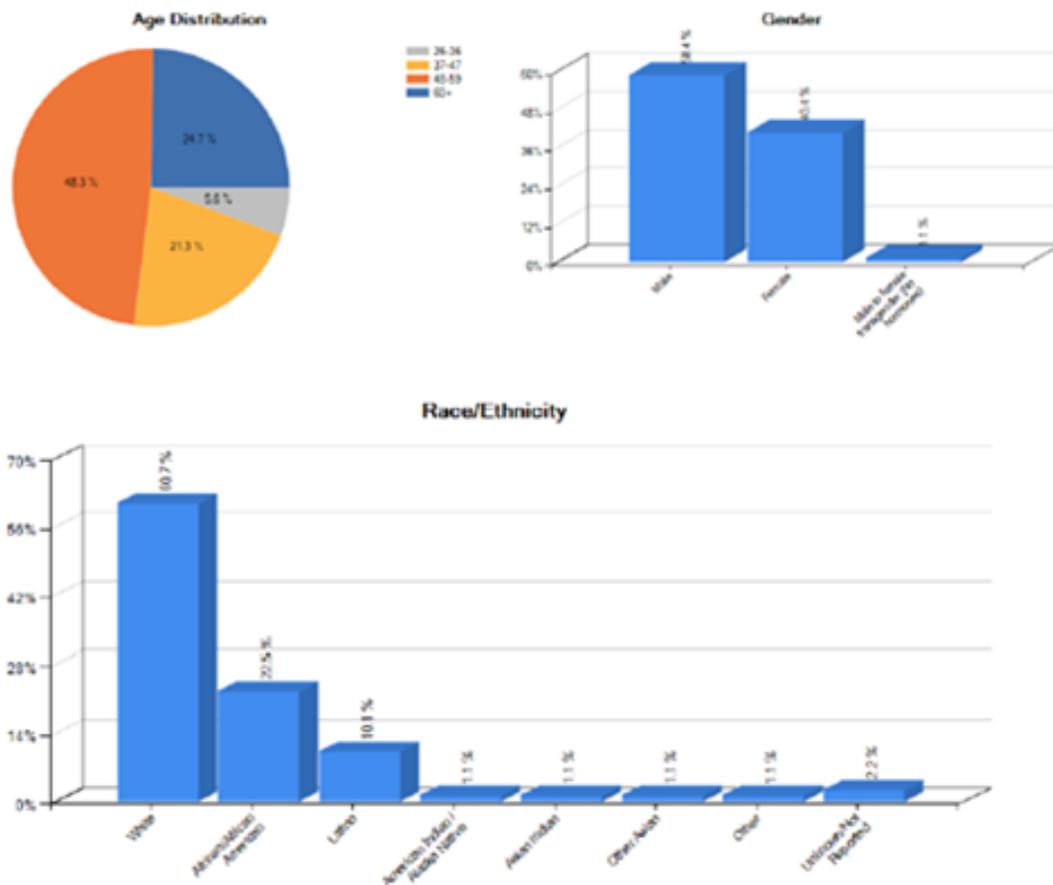
HOMS is capable of creating a data extract file for download for data review or analysis purposes. All personally identifying information (PII) is maintained in a separate data table to mitigate privacy risks to individuals. Data download files are formatted as Excel CSV files, and can be easily exported into XML, SPSS, SAS, STATA or MS Access. Data download functionality can be limited to select users based on their access permissions.

The HOMS system allows you to use existing report formats or to completely customize the content and format of your reports.

Program Level Reports

Provider Level Outcomes Report

Program: Clinic Based
 Number of enrolled clients: 89



Note: this figure only reflects race and ethnicities with a value greater than 0.

Program-focused aggregate reports provide a quick snapshot of client information across an entire program, which can be used for program level evaluation, quality improvement, or outreach purposes.

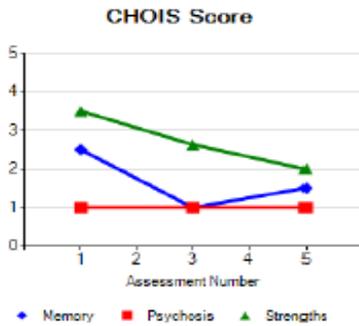
- HOMS reports can support different types of data, including continuous measures of change, categorical or ranked data, or qualitative information.
- Additional features such as complex formulas or graphs can be added with appropriate customization, and reports can be built to provide a richer analysis for a specific study or program.
- Reports can be designed to allow the user to specify a start date range, length of measures, and an error rate to directly measure mean progress over a population in a given timeframe.

The HOMS system is ideal for monitoring outcomes by providing access to data in real time. Data can be retrieved globally and calculations run immediately.

Client Level Reports

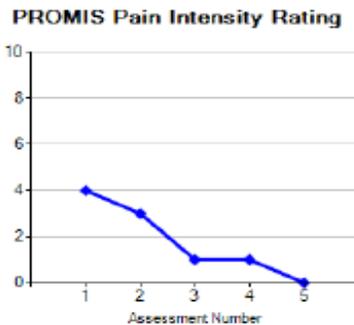
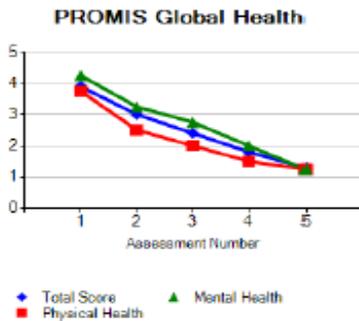
Average Client Rated CHOIS Supplement Scores Over Time

SUICIDE RISK: During their most recent assessment (Assessment 5), this client reported that he/she had thoughts of ending their life or harming themselves NEVER.



Assessment Number	Mean Memory Score*	Mean Psychosis Score*	Mean Strengths Score*
1	2.50	1.00	3.50
3	1.00	1.00	2.63
5	1.50	1.00	2.00

Average Client Rated Global Health Over Time



Assessment Number	Total Average Global Health Score*	Mean Physical Health Score*	Mean Mental Health Score*	Pain Intensity Rating*
1	3.90	3.75	4.25	4
2	3.00	2.50	3.25	3
3	2.40	2.00	2.75	1
4	1.80	1.50	2.00	1
5	1.30	1.25	1.25	0

Client-focused reports provide users with a comprehensive summary of outcomes that can be used to track progress and guide treatment planning.

- Reports can focus on select outcomes to provide quick updates on progress, or can be more thorough reports, like the example above, which can improve communication about treatment outcomes and recovery across several teams of care.
- Secure client level accounts can be created and used to enter and track client-reported information, or as a portal for clients to access their health information and recovery resources.
- Reports can be programmed to alert users to critical indicators, such as suicide risk or changes in substance use.

Data can be reported in easy to read tables and graphs that visually represent change over time.

Outcomes Tracking Reports

HOMS - Monthly Outcomes Report

Monthly Outcomes Report

Date : April 2011 Unit: 777 - Test Unit

Number of Client Assessments Reported:

	IMR	RMQ	SATS-R	MORS	LOCUS
First Assessment	26	26	0	28	0
Follow-up Assessment	24	24	0	43	0
Total	50	50	0	71	0

Changes in Recovery over Time:

	Unavailable*	Worse	Same	Better	Same/Better	Same/Better Fiscal Year 7/2010 thru 4/2011
Functional Status: IMR #7	1	6 (26.1%)	11 (47.8%)	6 (26.1%)	17 (73.9%)	111 (77.6%)
Clinical Status: IMR #9	3	4 (19.0%)	11 (52.4%)	6 (28.6%)	17 (81.0%)	111 (79.9%)
SATS-R	0	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	8 (100.0%)
MORS	0	11 (25.6%)	25 (58.1%)	7 (16.3%)	32 (74.4%)	517 (81.4%)
LOCUS	0	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)

Progress Toward Treatment Goals:

	Unavailable*	No Goal	No Progress	Progress	Progress Fiscal Year 7/2010 thru 4/2011
Employment	0	0	0 (0.0%)	0 (0.0%)	164 (51.4%)
Housing	0	0	0 (0.0%)	0 (0.0%)	76 (32.3%)
Education	0	0	0 (0.0%)	0 (0.0%)	78 (31.8%)

Change in outcomes can be tracked across all assessment time points and user-specified dates to easily explore change over time.

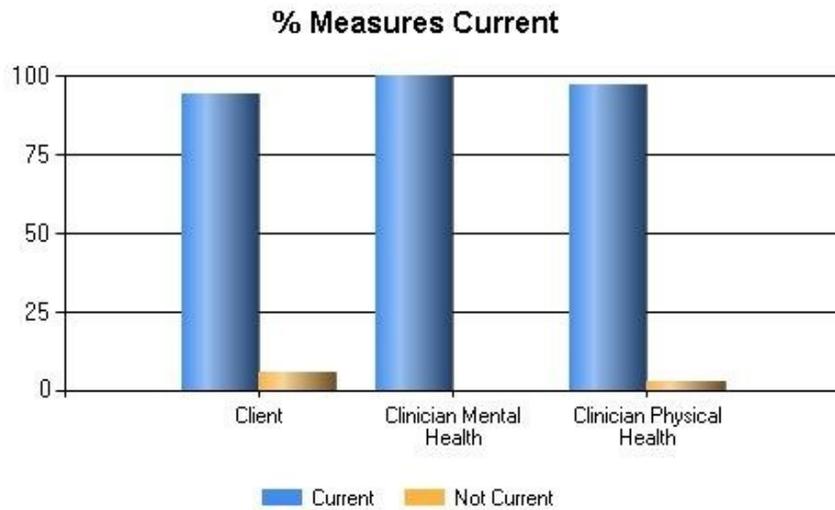
- Reports can rank/organize clients or participants into categories of interest based on their responses to an outcome measure. This feature can be used to quickly identify clients who may be at risk for relapse or require more focused treatment plans or clients who are in recovery.
- HOMS provides a secure data extract file for download for further data review or analysis. All personally identifying information is maintained in a separate database to mitigate privacy risks. Data files are formatted as Excel CSV files, and are easily exported to XML, SPSS, SAS, STATA, or MS Access. Data download functionality can be limited to select users based on their access permissions.

Compliance reporting provides users with a valuable summary of assessment completion history.

Compliance Reports

Innovation Health Outcomes Management System Assessment Progress Summary

Program:



Measure Type	Current	Not Current	Total
Client	136 (94.44%)	8 (5.56%)	144
Clinician -- Mental Health	144 (100.00%)	0 (0.00%)	144
Clinician -- Physical Health	140 (97.22%)	4 (2.78%)	144

Compliance reports can be used to monitor assessment completion within a particular time period, or to monitor the length of time between completed assessments.

- Compliance reporting can be used to identify clients in need of assessments to help users manage data collection.
- Compliance is calculated in real time to ensure that the reports are always accurate and up-to-date.
- The reporting time period can be customized by program or by outcome to support assessment schedules.
- Compliance reports can occur on the program level or the client level.

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Health Outcomes Management System Registration

Username:

Password:

Confirm Password:

First Name:

Last Name:

Email Address:

Confirm Email Address:

Access Level: 

- Access Level 1
- Access Level 2
- Access Level 3

Administrator:

Users must first create an account through the registration form in order to use HOMS.

- The registration process requires a user to input a username, password, and other basic information.
- If an error is made when completing the registration form, an error message appears telling the user why there was an error, and how to fix it.
- After successfully submitting, the user will see a confirmation pop up which summarizes the user's registration information. Confirmation emails are then sent to the email address the user registered with.
- Information icons will be placed throughout HOMS to help answer users' questions about features.

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Health Outcomes Management System Client Registration

Client ID:
(Just a reminder, the client ID is their IS number)

First Name:

Last Name:

Enrollment Date:

Preferred Language:

- English
- Spanish
- Farsi
- Armenian
- Korean
- Khmer
- Cantonese
- Samoan
- Mandarin
- Russian
- Tongan

Literate in preferred language?
(Is the client able to read in their preferred language?)

- Yes
- No

Date of Birth:

Gender:

- Male
- Female

Race/Ethnicity:

- White
- African/African American
- Hispanic
- American Native
- Chinese
- Japanese
- Filipino
- Korean
- Indochinese
- Amerasian
- Cambodia
- Samoan
- Asian Indian
- Hawaiian Native
- Guamanian
- Laotian
- Vietnamese
- Hmong
- Mien
- Other Asian
- Other Pacific Islander
- Other Non-White
- Other Black
- Other White
- Armenian
- Eastern European
- Iranian
- Other Middle Eastern
- Other
- Unknown/Not Reported

Users register clients using the Client Registration form.

- A client must first be registered into HOMS before users are able to enter any data for that particular client.
- A variety of client information items can be collected on this form.
- After successfully submitting, the user will see a confirmation pop up which summarizes the client registration information.

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Health Outcomes Management System Home

Client Data	Aggregate Reports	User Management	Admin Tools	Previous Assessments
Documents	Data Downloads	Help		

Client Lookup

Client ID:
[Register New Client](#)

First Name:

Last Name:

After successful registration, users are taken to the HOMS home page.

- The home page is where each user will start after they successfully log into HOMS.
- It is on the home page where users may access different features of HOMS depending on their access level.
- Customizable features can be added based on the needs of the project.

[Home](#) [Register](#) | [Login](#)



**Health Outcomes Management System
Reset Password**

Username:

First Name:

Last Name:

Email Address:

Retrieving a forgotten password requires the user to input basic registration information.

- To reset a password, a user needs to input their username, first name, last name, and email address.
- Upon submitting, the user will be emailed a temporary password.
- After logging in with the temporary password, the user will be prompted to change their password to something permanent.
- A user's password will reset automatically after five incorrect submissions.

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Client Lookup

Client ID:

Questions on which Data Entry Mode to choose? Read the [Descriptions for Data Entry Mode](#)

- REVIEW**
I would like to review client assessment information.
- EDIT MODE**
I need to edit or update previously submitted data.
- RETROSPECTIVE DATA ENTRY**
I would like to recreate a missed assessment from memory or using client records.
- BACK-ENTRY MODE**
I need to enter an assessment completed on paper.

The Previous Assessment feature allows users to review, edit, or enter client data that has already been completed on paper.

- Review Mode allows users to view both client and clinician assessment information that has been entered into HOMS.
- Edit Mode allows users to edit or add information to an existing, submitted assessment form in HOMS.
- Back Enter Mode allows users to enter data from paper forms directly into HOMS.
- Retrospective mode allows users to enter data that is recreated from memory or medical records for currently enrolled clients.

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You have 5 notifications pending.

[View All](#)

Health Outcomes Management System Notification Summary

<p>HSRC notified (6/16/2014):</p> <p>We are pleased to announce iHOMS now features updated 'save' functions for clinician and client forms.</p>	
<p>HSRC notified (4/18/2014):</p> <p>Client 7862549 has reported experiencing suicidal thoughts or feelings during their SemiAnnual assessment in 03/2014.</p>	
<p>HSRC notified (3/10/2014):</p> <p>Client 9999991 has reported experiencing suicidal thoughts or feelings during their SemiAnnual assessment in 12/2012.</p>	
<p>HSRC notified (2/7/2014):</p> <p>Client 1112223 has reported experiencing suicidal thoughts or feelings during their Baseline assessment in 02/2014.</p>	
<p>HSRC notified (2/6/2014):</p> <p>Client 11223 has reported experiencing suicidal thoughts or feelings during their Baseline assessment in 02/2014.</p>	
<p>HSRC notified (12/19/2013):</p> <p>Clinician has indicated that client 3434345 has experienced increased functional impairment due to alcohol/drugs during their SemiAnnual assessment in 12/2013.</p>	

Notifications inform users of important HOMS system updates and data collection issues.

- There are several types of notifications available. Two examples are listed below:
 - ⇒ **System updates:** inform users of important additions or edits to the HOMS system, as well as time periods where the HOMS system may be unavailable for maintenance purposes.
 - ⇒ **Reports:** HOMS can automatically provide users with updates on the number of assessments that will be due during the week or overdue during the upcoming week.
- Other notification options can be created based on user input.

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- [measures_core Integrated Parent Proxy Assessment](#)
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- [measures_core Pediatric Substance Use Scale](#)
- [measures_core Physical Health Behavior Survey Baselin](#)
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- [measures_core Staff Satisfaction](#)
- [measures_core Substance Use Scale](#)
- [measures_core Youth Physical Health Behaviors](#)

	A	B	C	D	E
1	clientid	ASSESSMENT_DATE	IMR1	IMR2	IMR3
2	9852364	9/25/2013	1	1	
3	8999998	10/2/2013	2	5	
4	7456547	9/20/2013	5	3	
5	4561237	10/29/2013	1	3	
6	7894561	10/30/2013	2	5	
7	9999991	7/1/2012	4	2	
8	8999999	7/17/2013	1	-99	
9	1112131	1/1/2012	4	1	
10	1112132	1/2/2012	4	2	
11	2345641	11/1/2012	1	1	
12	5665665	1/2/2012	5	2	
13	4554554	12/3/2012	3	4	
14	1212123	1/5/2012	4	5	
15	3434345	1/3/2012	1	2	
16	2344556	1/1/2012	5	5	
17	2323234	1/3/2011	1	5	
18	8529631	1/3/2014	5	2	
19	9998887	1/10/2014	5	2	
20	5698785	1/14/2014	1	4	
21	4652876	2/21/2014	5	1	
22	1234569	8/2/2013	2	5	
23	7665843	1/1/2012	4	1	
24	1222157	1/2/2012	4	2	

The Data Downloads feature allows users to download raw data.

- HOMS is capable of creating a data extract file for download for data review or analysis purposes.
- All personally identifying information (PII) is maintained in a separate data table to mitigate privacy risks to individuals.
- Data download files are formatted as Excel CSV files, and can be easily exported into XML, SPSS, SAS, STATA or MS Access. Data download functionality can be limited to select users based on their access permissions.

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Clients

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- [Client Baseline Assessment](#)
- [Client Quarterly Self-Assessment](#)
- [Semi-annual Self-Assessment For client IDs ending in 0, 3, 6, or 9](#)
- [Semi-annual Self-Assessment For client IDs ending in 1, 4, or 7](#)
- [Semi-annual Self-Assessment For client IDs ending in 2, 5, or 8](#)

Farsi [\[+\]](#)
 Armenian [\[+\]](#)
 Khmer [\[+\]](#)
 Chinese (Traditional) [\[+\]](#)
 Chinese (Simplified) [\[+\]](#)
 Korean [\[+\]](#)
 Russian [\[+\]](#)
 Samoan [\[+\]](#)
 Tongan [\[+\]](#)

The Documents feature allows for users to download printable copies of assessments and other relevant documents.

- Printable versions of assessments and other relevant documents can be made available in HOMS.
- This feature should be used when you are unable to complete electronic data entry.
- HSRC respects and abides by all copyright restrictions, patent laws and intellectual property rights in regard to the use of outcomes tools and measurements.

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HOMS is built and maintained by Health Services Research Center (HSRC), University of California, San Diego.

Questions about HOMS or Assessments

HSRC, University of California San Diego
Contact: Kyle Choi
Email: mhse@ucsd.edu
Phone: 858-622-1771

General Inquiries [-]

General Questions?
- Frequently Asked Questions about the Health Outcomes Management System are available [Here](#).

General Questions about Reports?
- Frequently Asked Questions about Reports are available [Here](#).

Questions about the Outcomes Measures?
- Check out the [Outcomes Manual \(Adult\)](#) [last updated 11/30/2012]

Questions on which Data Entry Mode to choose in Previous Assessments?
- Read the [Descriptions for Data Entry Mode](#)

Training Videos [+]

A full range of help and training resources are available to assist HOMS system users.

- The HOMS system help page provides a space for general and project specific HOMS help documents, informational videos, and contact information. Contents of the HOMS system help page are customized to reflect project specific needs and are updated regularly.
- HSRC provides HOMS system support during regular working hours. The HOMS system currently offers both phone support and general email support. Customized support options (emails, hotlines, etc.) are available based on individual project needs.