

Integrating Diagnostic Tools within Blaise 5: Examples from the National Study of Mental Health

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Acknowledgments: NSMH Funding and SAMHSA Disclaimer

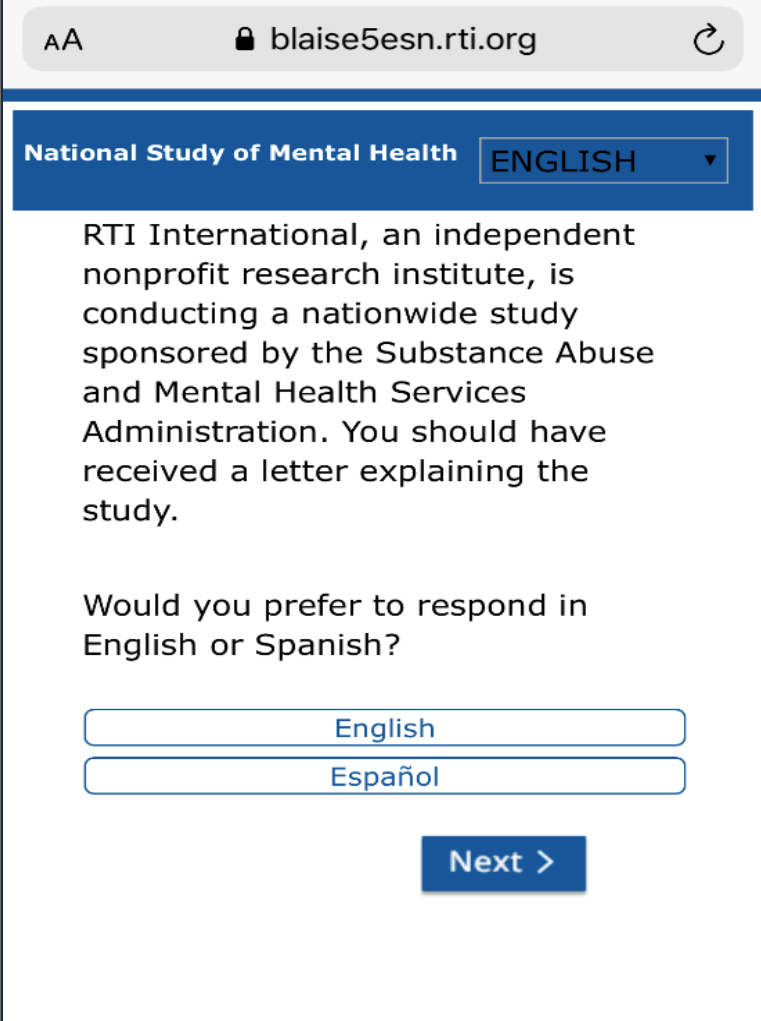
Funding: The National Study of Mental Health (NSMH) is a cooperative agreement between RTI International and the Substance Abuse and Mental Health Services Administration (SAMHSA). SAMHSA provided funding for the project (H79FG000030).

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National Study of Mental Health (NSMH)

- Conducted to estimate the prevalence of mental health and substance use disorders in adults across the United States*
- Household data collection
 - ~4,500 clinical interviews
- Non-household data collection
 - ~375 in prisons
 - ~375 in homeless shelters
 - ~150 in state psychiatric hospitals

* Estimates may not be nationally representative



AA blaise5esn.rti.org

National Study of Mental Health ENGLISH ▾

RTI International, an independent nonprofit research institute, is conducting a nationwide study sponsored by the Substance Abuse and Mental Health Services Administration. You should have received a letter explaining the study.

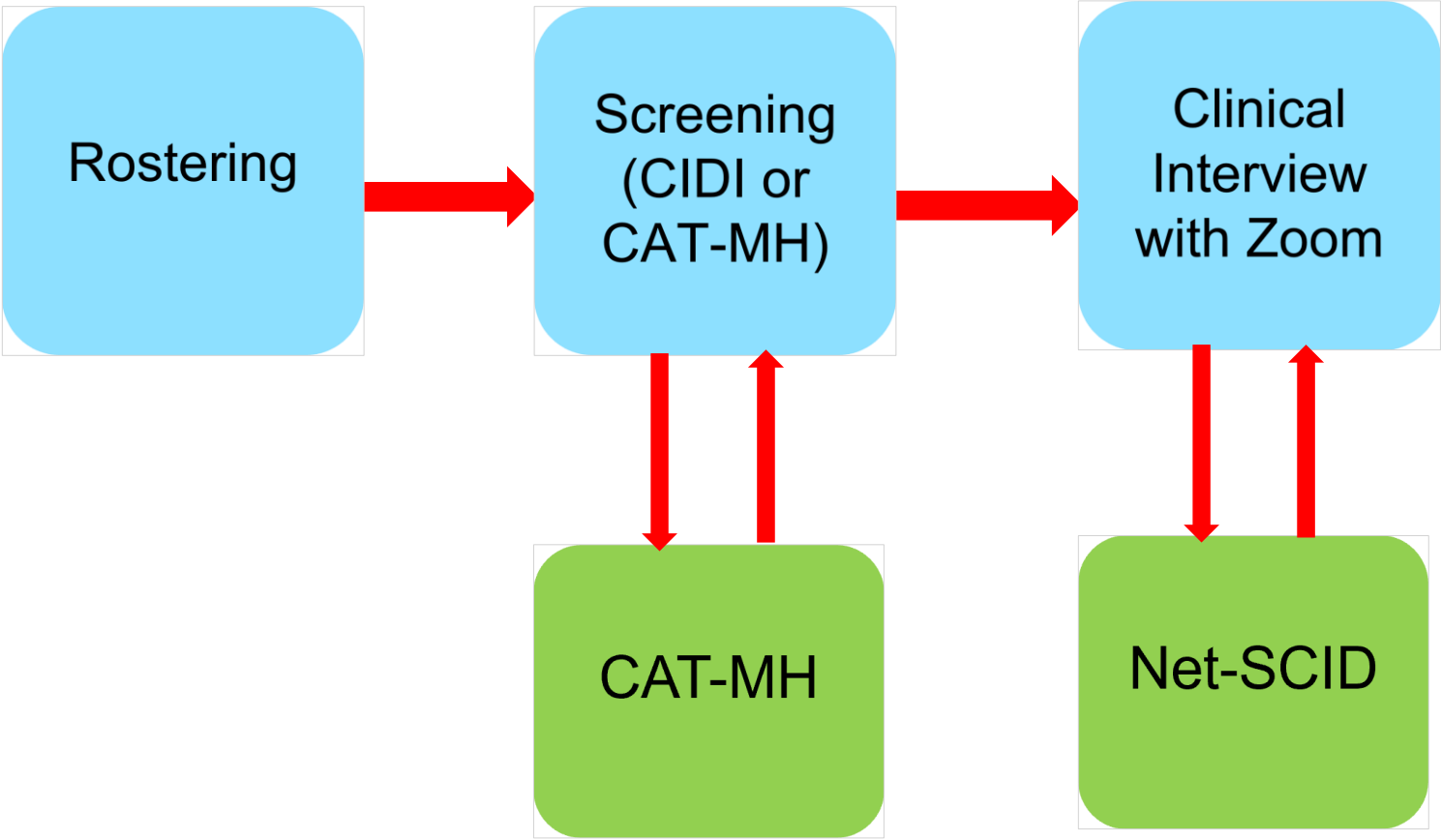
Would you prefer to respond in English or Spanish?

English

Español

Next >

NSMH Household Data Collection



Roster Instrument



- Programmed in Blaise 5 web
- Administered over the web, phone, in person, and paper modes
- Rosters the HH adults
- Selects 0, 1, or 2 members between the ages 18 and 65
- Launches the Screener instrument for the roster respondent (RR) if selected and is available

Screener Instrument

- Programmed in Blaise 5 web
- Administered over the web, phone, and in person modes
- Administers Composite International Diagnostic Interview (CIDI) or Computerized Adaptive Testing – Mental Health (CAT-MH™) screener
- CIDI is implemented in Blaise 5 itself

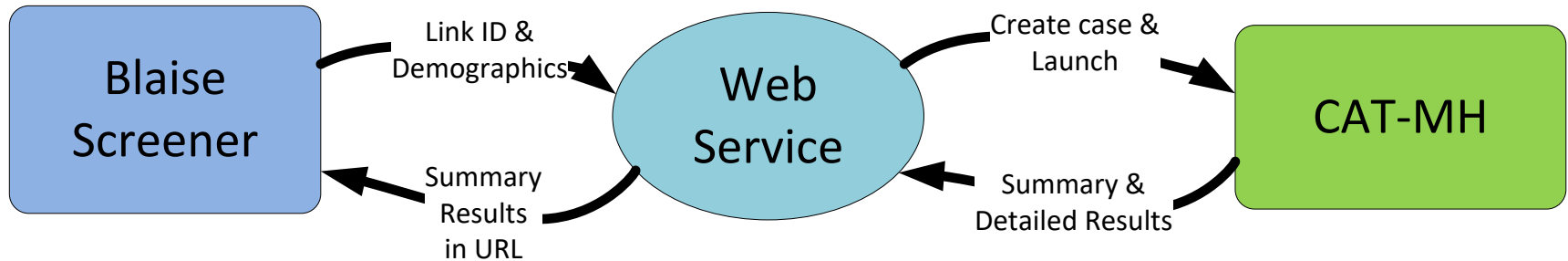
CAT-MH™ is trademarked by Adaptive Testing Technologies

The screenshot shows a web browser window with the URL 'blaise5esn.rti.org'. The page title is 'National Study of Mental Health' and the language is set to 'ENGLISH'. The main content area contains a question: 'Below is a list of health conditions. Have you ever been told by a doctor or other health care professional that you had any of these conditions?'. Below the question is a table with two columns: 'Yes' and 'No'. Each row represents a health condition with a radio button for each response option.

	Yes	No
Diabetes?	<input type="radio"/>	<input type="radio"/>
Heart problems?	<input type="radio"/>	<input type="radio"/>
Cancer?	<input type="radio"/>	<input type="radio"/>
Schizophrenia or schizoaffective disorder?	<input type="radio"/>	<input type="radio"/>
Other problems with emotions, nerves or mental health?	<input type="radio"/>	<input type="radio"/>
Problems with alcohol or drugs?	<input type="radio"/>	<input type="radio"/>

At the bottom of the form, there are two buttons: '< Back' and 'Next >'.

Screener Instrument with CAT-MH™



- Screener calls a web service to establish a unique case and launch it in the CAT-MH™ system
- At the end of the CAT-MH™ interview, CAT-MH™ calls a web service to return the summary and detailed results
- Web service in turn calls the Blaise 5 web instrument with the summary results embedded in the URL and saves the detailed results in MS SQL tables
- Blaise 5 integrates the summary results into the data record and uses it for the Clinical Interview selection

Clinical Interview

- Blaise 5 instrument on a MS Windows laptop
- Instrument incorporates the computerized version of the Structured Clinical Interview for the DSM-5 (NetSCID) developed by TeleSage

NetSCID™ TELE SAGE™
The Wise Choice in Survey Systems

Skip Module | Life Chart | Contact | Exit Early

Delusions (Psychotic and Associated Symptoms B)

Summary | Dx Tracker | Interview Notes

Overview

- Module A: Mood Episodes
 - MDE Past Year #1
 - Criterion A
 - A1 - Threshold - Depressed mood
 - A2 - Threshold - Diminished interest
 - A2_1a - No - More than one MDE
 - A2_1 - More than one MDE in past year
 - A3 - Threshold - Weight loss
 - A4 - Threshold - Insomnia or hyp
 - A5 - Threshold - Psychomotor agit
 - A6 - Threshold - Fatigue or loss of
 - A7 - Threshold - Worthlessness or
 - A8 - Absent/Subthreshold - Dimini
 - A9 - Threshold - Suicidal thoughts
 - 810 - Yes - at least 5 Criterion A c

B2

What about anyone going out of their way to give you a hard time, or trying to hurt you? (Tell me about that.)

Have you ever had the feeling that you were being followed, spied on, manipulated, or plotted against?

Did you ever have the feeling that you were being poisoned or that your food had been tampered with?

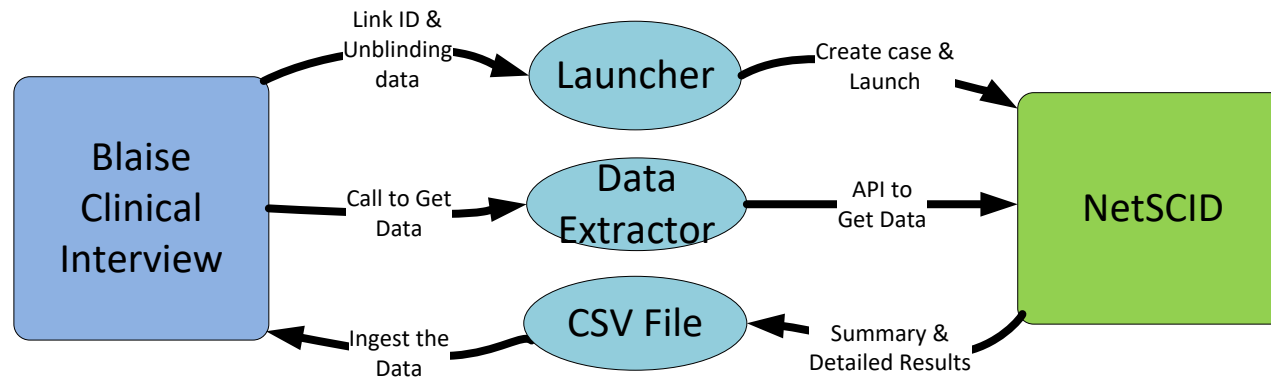
Persecutory Delusion (i.e., a belief that the individual [or his or her group] is being attacked, harassed, cheated, persecuted, or conspired against).

DESCRIBE IN NOTES.

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Clinical Interview – Blaise – NetSCID Interaction



- Instrument calls a stand-alone application that launches the NetSCID – with unblinding parameters
- Once NetSCID is completed, Blaise 5 instrument makes another call to get the data and summary results back in csv format
- Blaise 5 ingests the data into the Blaise record from the csv file
- Interview is conducted through Zoom and recordings are securely uploaded to RTI (20% audio only)

NetSCID is trademarked by Telesage

Blaise 4 versus Blaise 5

Blaise 4

- Instrument used alien router and procedures in Manipula to start external program
- Limited to Windows application

Blaise 5

- Create special Field Pane Template for the specific question
- Set up an event in that template with GotoURI to start the external program
- Parameters can be added to the template using variables in the Resource Database
- Allows the instrument to call different applications based on the mode of interview for the same question

Challenges

CAT-MH was incorporated only with Blaise 5 web screener instrument

- Used the same Blaise 5 web instrument for self interview, phone, and in-person modes

Unlike a normal survey, Mental Health assessments require review & revisions by supervisors

- NetSCID allows revisions through their system
- Set up a website for the supervisors to revise the NetSCID record using the recorded video and/or audio as a supporting tool
- Revised data are merged back into the final dataset



Lessons Learned

- Can launch 3rd party web-based entities with the use of web services and ingest the data back into the record through the return URL
- Can launch external applications on laptops through Resource Database and ingest the data back into the record through csv files
- Need to figure out methods for launching external applications and ingesting data for other modes





Thank you

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