NetSCID: an automated web-based adaptive version of the SCID

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Background
The Structured Clinical Interview for the Diagnostic and Statistical Manual of Mental Disorders (SCID-DSM) is the ‘gold standard’ for research-based mental health diagnoses. Clinical trials have depended upon it for over 20 years. It is the most widely used comprehensive tool for assessing DSM diagnoses. The SCID’s direct adherence to DSM criteria provides strong test-retest and high inter-rater reliability. However, administration of the full research version averages two hours and requires considerable clinician training, making it impractical for many protocols.

Features include:
- Fully customizable interviews
- Automatic logic calculations and branching
- Appropriate prompts automatically presented based on previous answers
- Evaluation of multiple episodes (e.g., past history)
- Item and entire interview level open-ended notes feature
- On-screen summary of all items administered
- Real-time Diagnosis Tracking
- Instant navigation through the interview, both forwards and backwards
- Ability to resume interviews at any time
- Comprehensive diagnostic reporting including ICD-9 and ICD-10 codes
- Encrypted database with downloadable item-level data
- Secure remote access via geo-redundant HIPAA-compliant cloud databases
- Option of paper SCID administration followed by rapid data entry with mouseless feature
- NetSCID-5 Research Version (RV) and Clinical Trials (CT) available now!
- Clinician (CV) and Personality Disorders (PD) versions coming soon!

Objective and Methods
To develop and validate a highly configurable and secure web-based version of the SCID that retains its diagnostic rigor while reducing training burden, data entry time, and interview errors. Twenty-four paired clinicians administered interviews with both the paper SCID and the NetSCID to 230 outpatient participants. Branching algorithms across 43 SCID diagnoses were tested to determine the strength of the tools test-retest and inter-rater reliability. Data-entry errors, branching errors, and clinician satisfaction were quantified.

Results
Ninety-seven percent of interview errors occurred among clinicians administering the paper SCID; all errors that occurred when utilizing the NetSCID were subsequently corrected by our engineering team.**

Administration time was reduced by over 30%. Administrators found it easier to administer (p<0.05), easier to navigate (p<0.05), and simpler to score (p<0.01). Ninety percent of clinicians preferred the NetSCID to its paper counterpart.

"Working with the NetSCID has been great. It’s efficient and easy to use; the features are simple and practical. Additionally, the staff at TeleSage have been responsive and friendly whenever we have a question. I am very glad that NIMH made it possible for the NetSCID to be developed."
- Samantha Steltman Research Program Coordinator, Psychiatry & Behavioral Science, Johns Hopkins University

Sample Screenshot

Citations