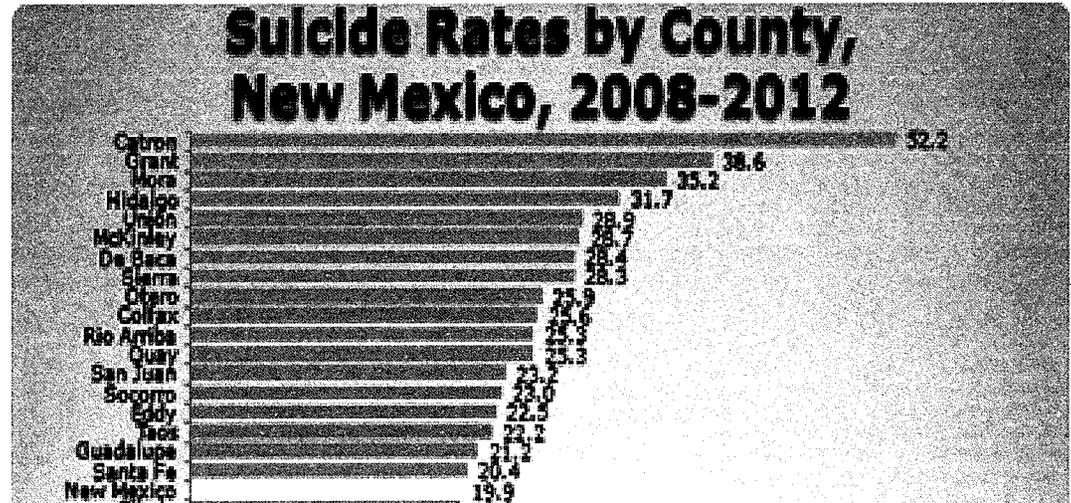


Computerized Adaptive Testing for Mental Health & Mental Health Information System Live Demonstration to Reduce the Risk of Suicide, Rehospitalizations, Unintentional Injury & Death for Medically Underserved Populations and Areas

2008-2012 New Mexico Suicides

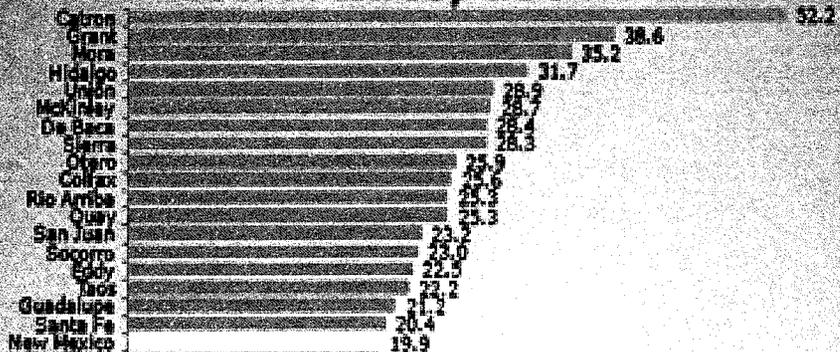
County	Rate per 100,000 Population	MUA Scores
Catron	52.0	45
Grant	38.6	53
Mora	35.2	47
Hidalgo	31.7	52
Union	28.9	42
McKinley	28.7	38
DeBaca	28.4	0
Sierra	28.3	18
Otero	25.9	49
Colfax	25.3	61
Rio Arriba	25.3	61



All rates are per 100,000 , age adjusted to the 2000 US standard
 Source: NM Bureau of Vital Records and Health Statistics; CDC Wonder
 Source: <http://muafind.hrsa.gov/index.aspx>

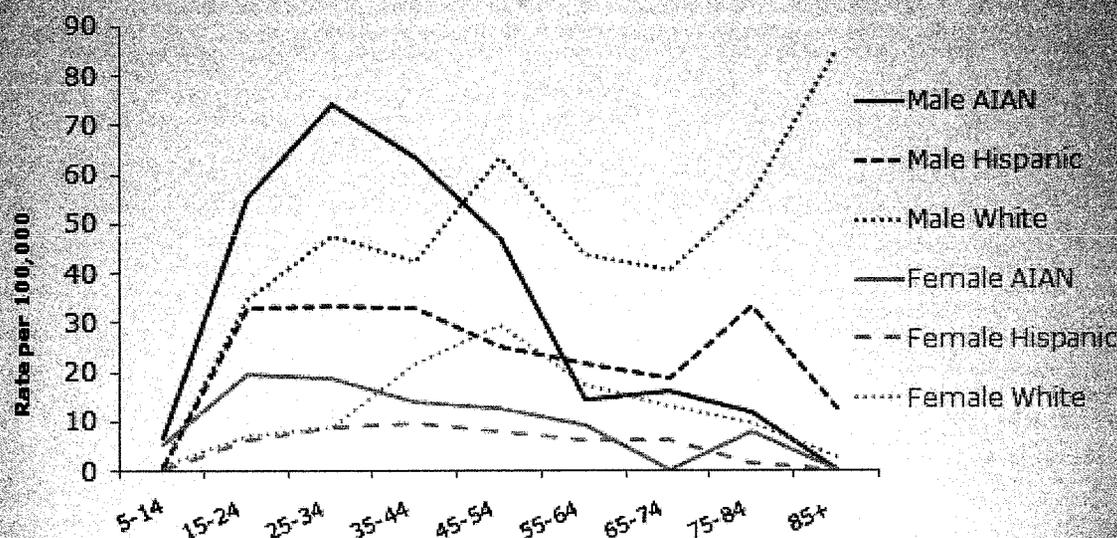
This data suggests a correlation between medically underserved areas and high rates of suicide for New Mexico residents. The ability to screen medically underserved populations at high risk of depression, substance use and suicide is a direct result of the implementation of the computerized adaptive tests for mental health (CAT-MH) in English and Spanish.

Suicide Rates by County, New Mexico, 2008-2012



The ability to screen special populations at high risk of depression and suicide, and remote populations with limited access to mental health services is a direct result of the implementation of the CAT-MH and MHIS.

Suicide Rates by Age, Sex, and Race/Ethnicity, New Mexico, 2008-2012



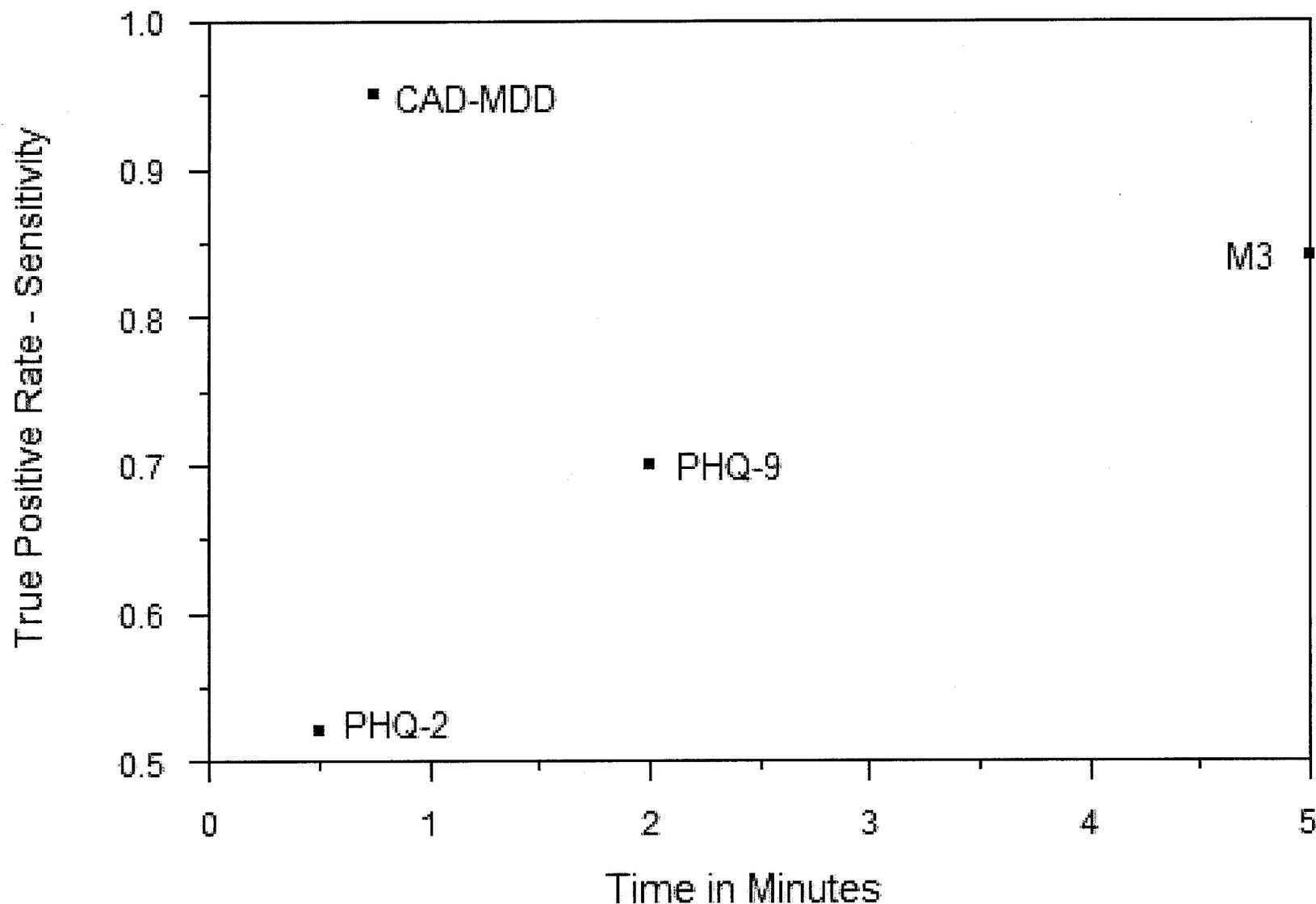
Source: NM Bureau of Vital Records and Health Statistics

What is CAT?

Computerized Adaptive Testing for Mental Health (CAT-MH)

- Common in educational testing for simple “unidimensional” constructs like math. 1000 item math test example.
- CAT-DI – extract the information out of 389 items using an average of 12 adaptively administered items.
- CAD-MDD – screen patients with 4 items but maintain 95% sensitivity (87% specificity) with a 1 hour clinician-based DSM diagnostic interview.
- CAT-ANX – extract the information out of 431 items using an average of 12 adaptively administered items.
- Suicide Screen – The CAT-MH has its own bank of 14 suicide items that are adaptively administered. In addition, all subjects receive the COLUMBIA-SUICIDE SEVERITY RATING SCALE screener (2-4 items), which has been validated in 35,000 patients, predicts suicidal behavior, and is used by the US Army, National Guard, VA, Navy and Air Force (among others).

Comparison of Diagnostic Screening Tools for Depression as a Function of Time and Sensitivity



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