Instrument	4AT Rapid Clinical Test for Delirium NOTE: This card is populated with information from the instrument's original validation study only.
Acronym	4AT
Core Domain	Delirium Screening
Area assessed (Number of questions)	4 areas assessed: Alertness, Orientation assessed with Abbreviated Mental Test – 4 (AMT4), Attention asssessed by Months of the Year Backwards, Acute Change or Fluctuating Course 4 items total
Description	Delirium assessment tool that can be used quickly in clinical settings. The 4AT is suitable for use in normal clinical practice and allows assessment of severely drowsy or agitated patients. Due to practice effects with specific test items, the 4AT is not designed for repeated daily monitoring for delirium. The 4AT can be used at first patient contact or at other times when delirium is suspected.
Versions	3, testing items and scoring unchanged across versions. Minor language and formatting changes from v1.0 to v1.2 (current version).
Scoring information	Rate each item on a scale of 0-4 or 0-2; add item scores for total score. Total scores above 4 points indiciate possible delirium and/or cognitive impairment (CI); scores from 1-3 indicate possible CI; score of 0 indicates that delirium or severe CI are unlikely
Cognitive testing	Brief cognitive testing (the Months of the Year Backwards test and AMT4) are embedded within instrument
Estimated time to rate	<2 minutes including brief cognitive testing embedded in the interview
Require trained rater	Designed for use by clinicians. No special training is required.
Administer to	Patient, in-person
Special resources required	One item requires information from additional sources about the patient, such as rater's previous knowledge of patient, nurse, or medical records
How to obtain	Free download with brief instructions: https://www.the4at.com/
Licensing Fee*	None
Languages available	Arabic, Dutch, French, German, Italian, Norwegian, Russian, Spanish, Thai
Highest COSMIN** rating	4/6 [†]
Test Performance	Bellelli 2014
Characteristics	Reference standard: Geriatrician diagnosis using DSM-IV-TR criteria • Sensitivity: in whole sample, 89.7%; no dementia subgroup, 83.3%, dementia subgroup, 94.1%.
	 Specificity: in whole sample, 84.1%; no dementia subgroup, 91.3%, dementia subgroup, 64.9%. Internal consistency: Cronbach's α = 0.80.
	-internal consistency. Crombach 5 a - 0.00.

^{*} Fees and licensing information is effective as of 2018, but is subject to change over time

Reference:

Bellelli G, Morandi A, Davis DH, Mazzola P, Turco R, Gentile S, Ryan T, Cash H, Guerini F, Torpilliesi T, Del Santo F, Trabucchi M, Annoni G, MacLullich AMJ. (2014). Validation of the 4AT, a new instrument for rapid delirium screening: a study in 234 hospitalised older people. *Age and Ageing*, 43:496-502. doi:10.1093/ageing/afu021

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^{**} COSMIN is used to rate a study's evaluation of a survey or test's measurement properties. COSMIN does NOT rate the instrument itself, but helps readers understand if they can have confidence in the results of studies evaluating measurement properties of surveys and tests. For example, a rigorous study evaluating a test with poor measurement properties will receive a "good" COSMIN rating, while a poorly-conducted study evaluating a test with good measurement properties will receive a "poor" COSMIN rating. Small sample size can impact all COSMIN ratings. You must consider both the COSMIN rating and the results of studies when forming your opinion about that test. COSMIN ratings shown are based solely on the instrument's original validation study.

[†] COSMIN breakdown: content validity: GOOD, effect indicators: GOOD, internal consistency: GOOD, inter-rater reliability: NONE, construct validity: NONE, external validity: GOOD

Reviews: De, J., Wand, A.P.F. (2015). Delirium Screening: A Systematic Review of Delirium Screening Tools in Hospitalized Patients. <i>The Gerontologist</i> , 55(6):1079-1099. doi:10.1093/geront/gnv100		



