Instrument	Brief Confusion Assessment Method  NOTE: This card is populated with information from the instrument's original validation study only.				
Acronym	bCAM				
Primary use	Delirium Screening				
Area assessed (Number of questions)	Addresses 4 core features: Acute onset or fluctuating course (feature 1); Inattention (feature 2); Altered level of consciousness (feature 3); Disorganized thinking (feature 4) 7 items				
Description	A modification of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU) for non-psychiatrically trained physicians to quickly screen for delirium outside of the ICU. The bCAM utilizes the CAM diagnostic algorithm.				
Versions	1				
Scoring information	3 of the 4 features must be present for bCAM to be considered positive (1 and 2, and either 3 or 4), according to the original CAM algorithm. Items are rated absent/present. The bCAM scoring sheet is presented as a flow chart to determine delirium presence quickly.				
Cognitive testing	Embedded in instrument; also requires use of a validated level of consciousness/sedation scale, such as Richmond Agitation-Sedation Scale (RASS) to determine feature 3				
Estimated time to rate	<2 minutes to perform interview and rate				
Require trained rater	Yes – trained lay raters or clinicians				
Administer to	Patient, in-person				
How to obtain	Detailed free instructions at <a href="http://www.icudelirium.org/non-icu.html">http://www.icudelirium.org/non-icu.html</a>				
Licensing Fee*	4/6 <sup>†</sup>				
Languages available	English, Zambian (Bemba and Nyanja dialects available)				
Highest COSMIN** rating	In progress				
Test Performance	Han 2013				
Characteristics	<ul> <li>Reliability (inter-rater), correlation coefficient kappa=0.88 (95% CI 0.81-0.95)</li> <li>Sensitivity (Compared to DSM-IV diagnosis by psychiatrist), performed by research assistant: 0.78 (95% CI 0.65-0.87); performed by physician: 0.84 (95% CI 0.72-0.92)</li> <li>Specificity (Compared to DSM-IV diagnosis by psychiatrist), performed by research assistant: 0.97 (95% CI 0.95-0.99); performed by physician: 0.96 (95% CI 0.93-0.97)</li> </ul>				

<sup>\*</sup> Fees and licensing information is effective as of 2018, but is subject to change over time

## Reference:

Han, J., Wilson, A., Vasilevskis, E., Shintani, A., Schnelle, J., Dittus, R., Graves, A., Storrow, A., Shuster, J., Ely, E.W. (2013). Diagnosing Delirium in Older Emergency Department Patients: Validity and Reliability of the Delirium Triage Screen and the Brief Confusion Assessment Method. Annals of Emergency Medicine, 62(5):457-465. doi:10.1016/j.annemergmed.2013.05.003

## **Reviews:**

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

Last updated on October 27, 2020. If you are aware of any updates required for this document, please notify us via nidus@hsl.harvard.edu





<sup>\*\*</sup> 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 provided when forming your opinion about that test. COSMIN ratings shown are based solely on the instrument's original validation study.

<sup>†</sup> COSMIN breakdown: content validity: GOOD, effect indicators: GOOD, internal consistency: NONE, inter-rater reliability: GOOD, construct validity: NONE, external validity: GOOD

Mariz, J., ( in the Em	Castanho, T.C., ergency Depar	Teixeira, J., Sou tment: An Up-to	ısa, N., Santos o-Date System	, N.C. (2016). atic Review. <i>G</i>	Delirium Diagno Geriatrics, 1,22.	ostic and Screen doi:10.3390/ger	ing Instruments iatrics 1030022
updated on <b>D</b> s@hsl.harvard		. If you are aware	of any updates r	equired for this	document, please	notify us via	



