Instrument	Ultra-Brief 2-item Screener
Acronym	UB-2
Core Domain	Delirium Screening
Area assessed (Number of	Orientation and attention
questions)	2 items
Description	The Ultra-Brief 2-Item Screener (UB-2) is a clinician-administered two-item interview
	designed for large-scale delirium case identification. The two items are "please tell me the
	day of the week", and "please tell me the months of the year backwards, say December as your first month."
Versions	1
Scoring information	If the patient gets both items correct, the screen is negative for delirium. If one or both
	items are incorrect, then this is a positive screen. For the months of the year backwards,
	answer is incorrect if one or more months are missed, the patient gives the wrong type of
	answer after one re-read of instructions, or if the patient cannot answer at all after two
	prompts. 2 brief items
Cognitive testing Estimated time to rate	< 1 minute
Require trained rater	Yes, physicians, nurses, and nursing assistants
Administer to	Patient
Special resources required	A "positive screen" (either item incorrect) requires a more thorough diagnostic interview; the instrument developers recommend the 3D-CAM or CAM.
How to obtain	Pocketcard of instrument with instuctions and a free video for training is available at:
	www.nursing.psu.edu/readi
Licensing Fee*	None
Languages available	English
Highest COSMIN** rating	In progress
Test Performance	Fick 2015 (n=201) hospitalized patients, reference standard: clinical interview by
Characteristics	neuropsychologist or advanced practice nurse followed by adjudication from expert
	panel, including geriatrician. Note this sample was the derivation sample for UB-2 item
	choices.
	•Sensitivity: 93% [95% CI 81-99%]
	•Specificity: 64% [95% CI 56-70%]

^{*} Fees and licensing information is effective as of March 2019, but is subject to change over time

References: Fick DM, Inouye SK, Guess J, Ngo LH, Jones RN, Saczynski JS, Marcantonio ER (2015). Preliminary development of an ultrabrief two-item bedside test for delirium. Journal of Hospital Medicine 10:645-650. [COSMIN reference]

Fick DM, Inouye SK, McDermott C, Zhou W, Ngo L, Gallagher J, McDowell J, Penrod J, Siuta J, Covaleski T, Marcantonio ER (2018). Pilot study of a two-step delirium detection protocol administered by certified nursing assistants, physicians, and registered nurses. Journal of Gerontological Nursing 44(5):18-24

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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 provided when forming your opinion about that test. COSMIN ratings shown are based solely on the instrument's original validation study.

Subgroup analyses of sensitivity/specificity:

Sensitivity:

• With dementia: 96% Without dementia: 86%

Specificity

• With dementia: 43% Without dementia: 69%

Fick 2018 (n=23)

•Sensitivity: UB-2 + 3D-CAM (by physician 80%; by RN 100%) •Specificity: UB-2 + 3D CAM (by physician 83%; by RN 89%)

•Positive Predictive Value: UB-2 + 3D CAM (by physician 57%; by RN 71%) •Negative Predictive Value: UB-2 + 3D CAM (by physician 94%; by RN 100%)



