Instrument	Delirium Triage Screen NOTE: This card is populated with information from the instrument's original validation study only.
Acronym	DTS
Primary use	Delirium Screening
Area assessed (Number of	Altered level of consciousness and inattention
questions)	2 items
Description	The Delirium Triage Screen (DTS) was created to rapidly rule out delirium and increase delirium screening efficiency. The DTS was designed to be part of nursing triage assessment in the emergency department, but it can be performed on inpatient wards as
	well (outside of the intensive care unit).
Versions	1
Scoring information	Altered level of consciousness is scored "yes" or "no." If yes, DTS score is positive and should be confirmed with a specific delirium assessment. If no, inattention is assessed using the "LUNCH" backwards spelling test. Inattention is scored as having 0-1 errors (DTS negative) or >1 error (DTS positive).
Cognitive testing	2 brief items
Estimated time to rate	<1 minute
Require trained rater	Yes, clinician or lay rater
Administer to	Patient
Special Resources Required	The Richmond Agitation Sedation Scale (RASS); a positive screen requires follow up with a more specific delirium assessment; instrument developers recommend the Brief Confusion Assessment Method (bCAM).
How to obtain	Additional information available: http://eddelirium.org/wp-
	content/uploads/2016/05/DTS-Training-Manual-Version-1.0-09-01-2015.pdf
Licensing Fee*	None
Languages available	English
Highest COSMIN** rating	4/6
Test Performance	Han 2013; Reference standard = psychiatrist assessment using DSM-IV-TR
Characteristics	•Sensitivity (DTS alone 0.98 [95% CI 0.90-1.00]; DTS + bCAM 0.84 [95% CI 0.72-0.92])
	•Specificity (DTS alone 0.55 [95% CI 0.50-0.60]; DTS + bCAM 0.96 [95% CI 0.93-0.97]) •Positive likelihood ratio (DTS alone 2.17 [95% CI 1.92-2.45]; DTS + bCAM 19.94 [95% CI
	11.97-33.19])
	•Negative predictive value (DTS alone 0.04 [95% CI 0.01-0.25]; DTS + bCAM 0.17 [95% CI 0.09-0.32])
	•Interrater reliability (K=0.79 [95% CI 0.73-0.85])

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

Reference:

Han JH, Wilson A, Vasilevskis EE, Shintani A, Schnelle J, Dittus RS, et al (2013). Diagnosing Delirium in Older Emergency Department Patients: Validity and Reliability of the Delirium Triage Screen and Brief Confusion Assessment Method. *Ann Emerg Med*, 62(5):457-465. doi:10.116/j.annemergmed.2013.05.003

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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.

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			



