

## Delirium sheet mCAM-ED

In all patients who are 65 years of age or older or who have clinical signs of delirium, a screening for inattention is performed. If the screening is abnormal, a delirium assessment is performed.

Signature  Date      Time     Sheet No.

### Instructions:

1. Inform patient: for example, "I would like to ask you some questions about memory."
2. Screening (disturbance in attention): each month not mentioned or each pair of months not mentioned in the correct order counts as an omission. If the patient takes > 30 seconds, one point is added. If the attention test is unremarkable (< 3 points), no assessment is necessary.
3. Carry out an assessment if the attention test is abnormal ( $\geq 3$  points).
4. An acute change in the patient's mental status is present if one of the three points is fulfilled:
  - a) MSQ < 8 + altered level of consciousness
  - b) external anamnestic confirmation (e.g. relatives) of the acute change or
  - c) by clear changes in a recently performed mCAM-ED

### Screening: Inattention - Month of the Years Backwards Test

2	Dec	Nov	Oct	Sep	Aug	Jul	Jun	May	Apr	Mär	Feb	Jan	<b>Evaluation:</b>	
	•	•	•	•	•	•	•	•	•	•	•	•		
<b>Rating:</b> $\geq 3$ Points: Disturbance in Attention													Omissions	Points
													Time > 30 sec	Point
													total	Points

### Assessment

1a	<b>Acute change in mental status (MSQ)</b>			correct	false	n.a.
	1	What is the name of this hospital?		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	2	Where is it located? (approximate address)		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	3	What is today's date? ? (Current date; correctly = $\pm 1$ Tag)		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	4	What is the month now?		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	5	What is the year?		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	6	How old are you?		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	7	When were you born? (month)		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	8	When were you born? (year)		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	9	Who is the president of the United States? (Biden)		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	10	Who was the president before him? (Trump, Obama, Bush, Clinton, Reagan, etc.)		<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
<b>Rating:</b> $\leq 7/10$ points: altered mental status			<b>total</b>			

3	<b>Disorganized thinking</b>			correct	false	n.a.
	1	Will a stone float on water	no	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	2	Are there fishes in the sea	(yes)	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	3	Do two pounds of apples weigh more than one	(no)	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
	4	Can you use a hammer to pound nails	(yes)	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>
<b>Rating:</b> $\leq 2$ points or was the patient's thought process disorganised or incoherent? => disorganized thinking probable			<b>total</b>			

### Observation

1b 4	<b>Observation</b>		yes	no
	Fluctuating course (also external anamnestic)		<input type="checkbox"/>	<input type="checkbox"/>
	Altered level of consciousness (Coma, stupor, lethargic or vigilant)		<input type="checkbox"/>	<input type="checkbox"/>

<b>7cbZi gJcb' 5ggYgg a Ybh' AYh\ cX'f7 5 AŁ</b>		mYg	QR	n.D.	
1a	Acute change in mental status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>FUh]b [ :</b> [1a UbX 1b] and 2 and [3 or 4] <input type="checkbox"/> Definite delirium [1a cf 1b] and 2 and [3 or 4] <input type="checkbox"/> Probable delirium Everything else <input type="checkbox"/> No delirium
1b	Fluctuating course	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Aufmerksamkeitsstörung	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Disorganized thinking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Altered level of consciousness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Abbreviations: MSQ Mental Status Questionnaire, CAM Confusion Assessment Method, n.a. not applicable  
mCAM-ED modified Confusion Assessment Method for the Emergency Department

- 1a) Acute onset:** Is there evidence of an acute change in mental status from the patient's baseline?
- 1b) Fluctuating course:** Did this behavior fluctuate during the past day, that is, tend to come and go or increase and decrease in severity?
- 2) Aufmerksamkeitsstörung:** Hatte der Patient Schwierigkeiten seine Aufmerksamkeit zu fokussieren, z.B. war er leicht ablenkbar oder hatte er Schwierigkeiten, dem Gespräch zu folgen?
- 3) Formale Denkstörung:** War der Gedankenablauf des Patienten desorganisiert oder zusammenhanglos, wie Gefasel oder belanglose Konversation, unklar der unlogischer Gedankenfluss, oder unerwartete Gedankensprünge?
- 4) Veränderte Bewusstseinslage:** Wie würden Sie die Bewusstseinslage des Patienten allgemein beschreiben?
- Wach – alert (normal) oder
- Hyperalert: Überspannt, reagiert übersensibel auf die Stimulationen der Umgebung, erschrickt sehr schnell
- Somnolent: Wirkt schläfrig, öffnet aber die Augen und antwortet auf Fragen. Braucht vielleicht eine laute Stimme
- Soporös: Reagiert auf Schütteln, aber nicht auf Ansprache
- Koma: nicht weckbar

CAM Algorithm adapted from: Inouye SK, et al. Ann Intern Med. 1990; 113: 941–948 [16].  
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Modifizierter mCAM-ED Algorithmus: Grossmann F et al. Scand J Trauma Resusc Emerg Med. 2014