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Appendix I: DSM-IV and scales for

2	measuring delirium
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4	DSM-IV criteria
5 6	The criteria from the 'Diagnostic and Statistical Manual of Mental Disorders' [DSM IV] (1994) describe delirium as:
7 8	(a) disturbance of consciousness (i.e., reduced clarity of awareness of the environment) with reduced ability to focus, sustain, or shift attention.
9 10 11	(b) a change in cognition (such as memory deficit, disorientation, language disturbance) or the development of a perceptual disturbance that is not better accounted for by a pre-existing, established, or evolving dementia.
12 13	(c) the disturbance develops over a short period of time (usually hours to days) and tends to fluctuate during the course of the day.
14 15 16 17 18	(d) there is evidence from the history, physical examination, and laboratory findings that: (i) the disturbance is caused by the direct physiological consequences of a general medical condition, (ii) the symptoms in criterion (i) developed during substance intoxication, or during or shortly after, a withdrawal syndrome, or (iii) the delirium has more than one aetiology".
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1 <u>ICD-10</u>

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2.2. Other instruments

- Typically delirium is diagnosed by examining changes in cognitive function, and this is linked to the DSM IV criteria. Validated instruments, based on the operational application of the DSM-IV or DSM-III-R diagnostic criteria, include (table 11):
- 7 Table I1: validated instruments for delirium

Instrument	Description
Confusion	Long and short version of CAM
Assessment	Long version
Method (CAM)	10 items operationalised on DSM-IIIR criteria:
	Acute change in mental status
	Inattention
	Altered level of consciousness
	Disorganised thinking
	Disorientation
	Memory impairment
	Perceptual disturbances
	Psychomotor agitation
	Psychomotor retardation
	Altered sleep-wake cycle
	Short version
	4 features:
	1. Acute onset and fluctuating course
	2. Inattention
	3. Disorganised thinking
	4. Altered level of consciousness
	For discussion of delicion, fortune 1 and 2 months disclosed AND sixten fortune 2 and 4 months
	For diagnosis of delirium, features 1 and 2 must be displayed AND either feature 3 or 4 must be displayed.
Instrument	Description
Confusion	1. Acute onset and fluctuating course
Assessment	2. Inattention
Method-	3. Disorganised thinking
Intensive Care	4. Altered level of consciousness
Unit (CAM-	For diagnosis of delirium, features 1 and 2 along with feature 3 or feature 4 must be displayed
ICU)	Fort or Olevinosite to consolidate of the America Consolidate Fort of the America
	Feature 2 Inattention is assessed by using the Attention Screening Examination (part a: picture recognition; part b: Vigilance A random test).
Delirium	Scale consists of characteristic symptoms of delirium and is not an operationalisation of any
Rating Scale	particular DSM version; intended for use in conjunction with standardized cognitive tests
(DRS)	Items:
(=)	Temporal onset of symptoms
	Perceptual disturbance
	Hallucinations
	Delusions
	Psychomotor behaviour
	Cognitive status Slagar warks grade disturbance
	Sleep-wake cycle disturbance It is the state of
	Liability of mood
	Physical disorder
	Variability of symptoms

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	10-item scale. Maximum of 32 points, each item rated from 0 to a maximum either of 2, 3, or 4
	points, depending on the item. Symptoms rated over a 24 hour period.
Delirium	16 item rating scale includes:
Rating Scale- Revised-98 (DRS-R-98)	3 'diagnostic items':
	• temporal onset
	• fluctuation
	physical disorder
	13 'severity symptoms':
	attention, orientation, memory [short and long term]
	sleep-wake cycle disturbances
	perceptual disturbances and hallucinations
	• delusions
	liability of affect
	language
	thought process abnormalities
	motor agitation or retardation
	Scores range from 0 to 44; maximum total score of 46 points and maximum severity score of 39
	points ; Scores of 15.25 and over indicative of delirium.
Delirium	Each domain comprised of questions and rated as present/absent
Symptom	7 domains chosen by their relationship to the DSM-III criteria
Interview (DSI)	Disorientation
	Disturbance of sleep
	Perceptual disturbance
	Disturbance of consciousness
	Incoherent speech
	Level of psychomotor activity
	Fluctuation behaviour
Instrument	Description
	Description Assessed on the following 9 domains:
Instrument NEECHAM Confusion	Assessed on the following 9 domains :
NEECHAM	Assessed on the following 9 domains : • Responsiveness
NEECHAM Confusion	Assessed on the following 9 domains : Responsiveness Processing command
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function Oxygen stability Continence
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function Oxygen stability Continence Scores range: 0 to 30; 27–30: normal; 25–26: 'at risk' for confusion; 20–24: mildly confused
NEECHAM Confusion	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function Oxygen stability Continence Scores range: 0 to 30; 27–30: normal; 25–26: 'at risk' for confusion; 20–24: mildly confused 0–19: confused; ≤8: severely confused.
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NEECHAM Confusion Scale	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function Oxygen stability Continence Scores range: 0 to 30; 27–30: normal; 25–26: 'at risk' for confusion; 20–24: mildly confused 0–19: confused; ≤8: severely confused. Measurement of severity of symptoms of delirium that is based solely upon observation of the individual patient, without additional information from family members, nursing staff or the patient medical chart. Designed to be used in conjunction with the Mini-Mental State Exam
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NEECHAM Confusion Scale	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function Oxygen stability Continence Scores range: 0 to 30; 27–30: normal; 25–26: 'at risk' for confusion; 20–24: mildly confused 0–19: confused; ≤8: severely confused. Measurement of severity of symptoms of delirium that is based solely upon observation of the individual patient, without additional information from family members, nursing staff or the patient medical chart. Designed to be used in conjunction with the Mini-Mental State Exam (MMSE). Assessed on the following seven domains: Inattention Disorganised thinking Altered level of consciousness Disorientation
NEECHAM Confusion Scale	Assessed on the following 9 domains: Responsiveness Processing command Orientation memory Performance-appearance Performance-motor Physiology Vital function Oxygen stability Continence Scores range: 0 to 30; 27–30: normal; 25–26: 'at risk' for confusion; 20–24: mildly confused 0–19: confused; ≤8: severely confused. Measurement of severity of symptoms of delirium that is based solely upon observation of the individual patient, without additional information from family members, nursing staff or the patient medical chart. Designed to be used in conjunction with the Mini-Mental State Exam (MMSE). Assessed on the following seven domains: Inattention Disorganised thinking Altered level of consciousness

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	 Motor disturbances Score range 0 to 21; score for each item of 0 to 3 and 9: cannot assess; If the features inattention, disorganised thinking, disorientation or memory impairment cannot be assessed, replace by the score of item 3.
Intensive Care Delirium Screening Checklist (ICDSC)	Eight item checklist based on DSM-IV Criteria and features of delirium. Altered level of consciousness Inattention Disorientation Hallucinations or delusions Psychomotor agitation or retardation Inappropriate speech or mood Sleep-wake cycle disturbance Symptom fluctuation
	Checklist is based on data for the previous 24 hours. Total score 8 points. Scoring position of each item is equal to 1 point. A score of 4 or greater is a positive screen for delirium.
Memorial Delirium Assessment Scale (MDAS)	Assessed for severity on the following 10 item scale: Reduced level of consciousness Disorientation Short-term memory impairment Impaired digit span Reduced ability to maintain and shift attention Disorganised thinking Perceptual disturbance Delusions Decreased or increased psychomotor activity Sleep-wake cycle disturbance (disorder or arousal) Scores range from 0–30; score for each item ranges from 0 to 3, with 0=none to 3=severe;
	Cut off score of 13 is indicative of delirium (in cancer patients); Validated among hospital inpatients with advanced cancer or AIDS

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