

Revisiting the supportive care guidelines for BSMO "Delirium in adult cancer patients"

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Ann Oncol-2018 Oct 1;29(Suppl 4):iv143-iv165. Delirium in adult cancer patients: ESMO Clinical Practice Guidelines-<u>S</u> H Bush et al

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Delirium is

- an acute onset, fluctuant, neurocognitive syndrome
- with any changes by daily observation like :
- 1.Disturbances of <u>attention</u> and awareness : impaired concentration, slow responses,

2.Disturbances in an additional <u>cognitive</u> domain: confusion, hallucinations,3.May also be: Disturbances caused by substance intoxication or withdrawal,4.May also occur:

- 1.<u>emotional</u> disturbances: mood changes ;
- 2.psychomotor_disturbances: agitation, restlessness or sleep disturbances,

DSM-V (Diagnostic and Statistical Manual of Mental Disorders) 2013



- Three clinical subtypes of delirium have been described according to the type of psychomotor activity:
 - Hyperactive,
 - Hypoactive (≠ depression),
 - And mixed (2/3).



- 10% emergency department
- 18% hospitalization in oncology or medical department
- 26 to 47% in PCU
- 85-90% in end of life PCU



- Often missed: 37% (fluctuation of symptoms, hypoactive presentation)
- Misdiagnosed with another psychiatric disorder:
 - Mild cognitive impairment, dementia
 - Depression
 - Anxiety
 - Psychosis
 - Hearing or visions problems
 - Aphasia
 - Disconfort with restlessness



- Often missed: 37%*
- Reversibility: 30-50% (rare in end-of-life setting)
- Mortality (30-day mortality: 25% if hospitalized cancer patients)
- Morbidity : time and cost-consuming , distress in patients and their family and caregivers
 - 1 rehabilitation needs
 - † Pressure sores
 - **1** Aspiration pneumoniae
 - 1 Placement at 2 years
 - **†** Fonctionnal decline and falls

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Diagnosis by formal tools : short CAM

Testing of orientation and sustained attention is recommended <u>prior</u> <u>to scoring</u>, such as : digit spans, days of week, or months of year backwards.

- Proper training is required
- pooled sensitivity of 82%
- pooled specificity of 99%

Feature*	Assessment					
#1 Acute onset and fluctuating course	 Usually obtained from a family member or nurse and shown by positive responses to the following questions: "Is there evidence of an acute change in mental status from the patient's baseline "Did the abnormal behavior fluctuate during the day, that is, tend to come and go, or increase and decrease in severity?" 					
#2 Inattention	Shown by a positive response to the following:					
	 "Did the patient have difficulty focusing attention, for example, being easily distractible or having difficulty keeping track of what was being said?" 					
*3 Disorganized thinking	 Shown by a positive response to the following: "Was the patient's thinking disorganized or incoherent, such as rambling or irrelevant conversation, unclear or illogical flow of ideas, or unpredictable switching from subject to subject?" 					
4 Altered level of consciousness	Shown by any answer other than "alert" to the following: • "Overall, how would you rate this patient's level of consciousness?"					
	- Normal = alert	- Hyperalert = vigilant				
	- Drowsy, easily aroused = lethargic - Unarousable = coma	- Difficult to arouse = stupor				

https://help.agscocare.org/table-of-contents/delirium-instruments/H00101

GHaC gsb1	Assessment test for delirium & cognitive impairment	Patient name: Date of birth: Patient number: Date: Time: Tester:	(label)	
• <u>www.the4AT.com</u>	[1] ALERTNESS This includes patients who may be markedly drows during assessment) or agitated/hyperactive. Obser speech or gentle touch on shoulder. Ask the patien	rve the patient. If asleep, attempt to wake with	CIRCLE	
 <2 minutes no special training is required pooled sensitivity of 88% pooled specificity of 88% 	[2] AMT4 Age, date of birth, place (name of the hospital or bu	Normal (fully alert, but not agitated, throughout assessment) Mild sleepiness for <10 seconds after waking, then normal Clearly abnormal	0 0 4 0 1 2	
			0 1 2	
	[4] ACUTE CHANGE OR FLUCTUATIN Evidence of significant change or fluctuation in: ale (eg. paranoia, hallucinations) arising over the last 2	ertness, cognition, other mental function		

No Yes

0

4

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4AT SCORE

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1-Identify and reverse underlying cause(s) of delirium if appropriate/ consistent with goals of care and illness trajectory.

2-Management

- 1. Non-pharmacological delirium management
- 2. Pharmacological delirium management





- 1. Non-pharmacological delirium management
- 2. Pharmacological delirium management



1. Non-pharmacological delirium management:

- Correction of predisposing conditions (hearing, vision).
- Encourage mobilisation, exercices; avoid using physical restreints
- Improve sleep—wake patterns
 - day: exposure to daylight, discourage naps;
 - evening: avoid corticoïds, use non-caffeinated drinks, relaxing music, minimise light, noise, disruptions.
- Orientation activities
 - explain where the patient is, who they are, who you are and your role,
 - use orientation board, visible clock and cognitive stimulation activities, eg, reminiscence).
- Minimise room changes.
- Support family and nursing as partnership



2.Pharmacological delirium management

- 1. Medications are generally not recommended in most cases.
- 2. Antipsychotics can be deleterious (paradoxal reaction)
- 3. So use it in restricted conditions only : danger
- 4. If needed, use the lowest effective dose (titration) for the shortest possible time to relieve symptoms (not more than 24h post resolution).
- 5. Caution is needed with benzodiazepines as they can exacerbate delirium.
- 6. The risk of extrapyramidal side effects (EPSEs) is lower with new generation antipsychotics
- 7. Patient and family education and support

GHaC 2-Management	Class	Name	C	Mode of administration	Minimal unit dose per intake (mg)	Maximal unit dose per intake (mg)	Maximal dose per day (mg)	
2.Pharmacological delirium management	Antipsychotics	Haloperidol	Haldol 0.5	Po or sc or iv	0.5 Titration : Repeat/30' (sc or iv) Repaet/60' (po) Steady state dose : 50% of induction dose	1	4	More EPSEs
		Levomepromazine (methotrimeprazine)	Nozinan 25	Po (or sc or iv)	6.25 (1/4cp)	12.5/2h (1/2 cp)	50-100	
	Second or new generation antipsychotics	Risperidone	Risperdal	Ineffective				
	(SGAs) = atypical antipsychotics	Clozapine Agranulocytosis and cardiac complications	Leponex 25					
	(AAP) = serotonin– dopamine	Olanzapine	Zyprexa 5	Po or sc	2.5-5 (½ cp) Before sleeping	5 (1 cp)	10	More sedative More AChSEs
	antagonists (SDAs)	Quetiapine	Xeroquel 25	Ро	12.5 Twice per day	25	100	More sedative
		Aripiprazole	Ability 10	Ро	2.5-5 (1/4-1/2)		20	
	Benzodiazepines	Midazolam	Dormicum 15	Sc or iv	2.5 Titration : 0.5-1 mg/h	5/h	60	1° withdrawal and Parkinson 2° refractory
		Lorazepam	Temesta 1 po 4 sc	Po or sc	0.5	2/h	6	delirium and end of life
	Antipsychotics + BZD	If sedation requested for severe delirium						

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Delirium could be an early warning sign of Covid-19 in frail older people, or with prior dementia

Delirium-Onset COVID-19 in the elderly with dementia was strongly associated with higher mortality (p<0.001)

During COVID-19 pandemic, the rates of delirium in Patients who are critically ill are back in the 80% range (instead of 50% without COVID)

A kind of form of delirium which disturbs caregivers in their daily burden of task : COVID-19 conspiracy theories are spreading rapidly