



Myths and Facts

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It doesn't exist!

Myth 1

Prevalence

- Can be difficult to recognise - linked with complex underlying medical conditions
- Non-detection rates are typically around 33-66%
- Among the most common mental disorders experienced by patients with medical illness(es) - especially in older adults
- Occurs in 29% to 64% of medical in-patients
- About 2 in 3 patients in ITU get delirium
- Seven in 10 patients get delirium while on ventilators or soon after

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Its confusion Its agitation

Myth 2

DELIRIUM is an acutely changing or fluctuating mental status, inattention, disorganised thinking and altered level of consciousness

Develops over a short period of time and tends to fluctuate over the course of the day



Hyperactive delirium:

- Poor attention span
- Cannot consistently organise thought
 - restlessness
 - Agitation
- hallucinations, delusions, paranoia
- disorientation

Hypoactive delirium:

- slower psychomotor function
 - Lethargy
 - confusion
 - reduced awareness
 - poor attention span
- Delusions, paranoia, nightmares, hallucinations
 - Withdrawn
 - apathetic
- often *misdiagnosed* as depression.

There are two main types, but many patients have a mixed presentation and fluctuate between the two types

The ICDSC

SCORING SYSTEM:
The scale is completed based on information collected from each entire 8-hour shift or from the previous 24 hours. Objective manifestation of an item = 1 point. No manifestation of an item or no assessment possible = 0 point. The score of each item is entered in the corresponding empty box and is 0 or 1.

1. Alertness level of consciousness: A) No response or D) the need for vigorous stimulation in order to obtain any response signified a severe alteration in the level of consciousness precluding evaluation. If there is coma (A) or stupor (D) most of the time period then a blank (0) is entered and there is no further evaluation during that period. C) Drowsiness or requirement of a mild to moderate stimulation for a response implies an altered level of consciousness and scores 1 point. D) Wakefulness or sleeping state that could easily be aroused is considered normal and scores no point. E) Hypoalertness is noted as an abnormal level of consciousness and scores 1 point.
2. Impairment: Difficulty in following a conversation or instructions. Easily distracted by external stimuli. Difficulty in shifting focuses. Any of these scores 1 point.
3. Disorientation: Any obvious mistake in time, place or person scores 1 point.
4. Hallucination, delusion or psychosis: The unequivocal clinical manifestation of hallucination or of behaviour probably due to hallucination (e.g. trying to catch a non-existent object) or delusion. Gross impairment in reality testing. Any of these scores 1 point.
5. Psychomotor agitation or retardation: Hyperactivity requiring the use of additional sedative drugs or restraints in order to control potential dangerousness (e.g. pulling out IV lines, hitting staff). Hypoactivity or clinically noticeable psychomotor slowing. Any of these scores 1 point.
6. Inappropriate speech or mood: Inappropriate, disorganized or incoherent speech. Inappropriate display of emotion related to events or situations. Any of these scores 1 point.
7. Sleep/wake cycle disturbance: Sleeping less than 4 hours or waking frequently at night (do not consider wakefulness initiated by medical staff or loud environment). Sleeping during most of the day. Any of these scores 1 point.
8. Symptom fluctuation: Fluctuation of the manifestation of any item or symptoms over 24 hours (e.g. from one shift to another) scores 1 point.

Guidelines

NICE guidelines
CG103 on delirium:
diagnosis, prevention
and management

GPICS- "All patients
will be screened for
delirium"

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It doesn't matter

Myth 5



- Prolonged ICU stay
 - Prolonged time on mechanical ventilation
 - Prolonged Ward Stay
- Increase in healthcare costs
- Higher mortality
 - Each day of delirium in the ICU increases the hazard of mortality by 10%- Pisani, 2009
- Psychological impacts:
 - Psychological trauma
 - Cognitive impairment (Delirium in the ICU is an independent risk factor- Pandharipande 2013)

Psychological Outcomes



- "One quite literally loses one's grip on what is true and what is false because the true and the false are mixed together in a mess of experience."
- Everyday life experiences become distorted
- Generate feelings of being disconnected
- Fear and safety concerns-
- Lack of recall accompanied by feelings of guilt and shame

Delirium related distress in ICU

Investigating risk factors for psychological morbidity three months after intensive care: a prospective cohort study
Crit Care Med 2012, 40(10)

Charney D, Wade DT, Chris R, Brown D, David C, J, Howell E, Emily White, Michael G, Pittman, and Robert A. Sperk

Intrusive memories of hallucinations and delusions in traumatized intensive care patients: An interview study
Charney D, Wade DT, Chris R, Brown D, David C, J, Howell E, Emily White, Michael G, Pittman, and Robert A. Sperk

Acute distress linked to delirium strongest predictor of psychological outcome (mood, alcohol abuse & cognitive function)

88% of critical care patients with PTSD had hallucinatory or delusional flashbacks from ICU delirium (not real memories).

Welsh Prevalence Data

Network funded pilot 2017

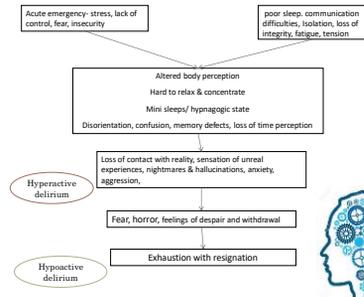
	Total (N=73)	Research
Clinical Anxiety	29%	34%
Clinical depression	23%	28%
Post traumatic Stress	25%	24-64%
Cognitive Issues	40%	30-80%
Depression, anxiety, PTSD combined	14%	

38% of follow up patients showed any clinically significant psychological distress concerns
 54% of patients with psychological history went on to experience post critical care psychological symptoms
 36% were new onset.

Just because you are **6** paranoid, it does not mean they are (not) after you....

Myth 6

Psychotic content reflects the environment



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You cannot treat it

Myth 7

Management

- Clinical practice guidelines for the management of pain, agitation and delirium in adult patients in the intensive care unit
 - Barr J, et al. Crit Care Med. 2013;41:263-306
- No specific treatment recommendations
- No magic drug
- Strategy more than agents
- Removing cause more than treating the symptoms .

ABCDEF icudelirium.cog

- A B** · Awake and Breathing Coordination
- C** · Choose light sedation & avoid benzos
- D** · Delirium monitoring & management
- E** · Early Mobility & Environment
- F** · Family Involvement

Recognise and manage/ treat underlying causes

- Lack of sleep
- Post operative
- Pain
 - Sepsis
- Metabolic/Electrolyte disorders
 - Alcohol
 - Recreational drugs
 - Hypoxia
 - Sedatives



Environment & attitude

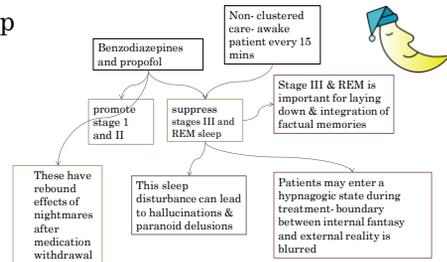
- AWAKE IN THE DAY- ASLEEP AT NIGHT: Light/ Sound / Stimulation
- Are you a "safe" pair of hands?



Orientation
 Poor speed of info processing
 Poor memory
 Continuity
 Visual/ auditory aids
 communication

Delusions & hallucinations
 Ask Gently question, dont challenge
 Normalise bad dream/ weird experiences

Sleep



Medical Management: CAV (up for debate!)

HYPERACTIVE / MIXED DELIRIUM:

- **1st LINE** – Haloperidol IV for AGITATION ONLY
 (Max 20mg/24 hours)
- **2nd LINE** – Quetiapine NG/PO BD
 (↑ every 24 hours according to response)
- **3rd LINE** – Clonidine infusion
 or Propofol Infusion (invasively ventilated only)

- NO LORAZEPAM (100% delirium)
- Benzodiazepines- be cautious, LT cog risk, increased delirium risk
- Haloperidol and quetiapine have LT impacts- use for **only one week**
- **DO NOT MEDICATE** hypoactive delirium

The Usual Suspects Volume 1

Common Drugs Associated with Delirium

The Blues Brothers Antidepressants	Inside Our Antibiotics	Sleepy Hollow Benzodiazepines	7 Year Itch Anticholinergics	A River Runs Through It Incontinence Agents
AMITRIPTYLINE DESIPRAMINE DOXEPIN NIFEDIPINE NORTRIPTYLINE PAROXETINE	BIMENHYDRINATE PHENOL DIPYRIDAZINE PROMETHAZINE	ALPRAZOLAM CLONIDAZINE CLONAZEPAM LORAZEPAM OXAZEPAM TRIAZEPAM	H1 ANTAGONISTS BIPHENRAMINE CLOPHIRAMINE DIPHENHYDRAMINE HYDROXYZINE MELIZINE H2 ANTAGONISTS LAMOTRIZINE	DARIFENACEN FESOTERODINE DETROL SOLIFENACEN TOLTERODINE

www.DeliriumCareNetwork.com

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You can't treat the Lt Psy Impacts

Myth 8

Delirium, Deluded Memories and PTSD

- ITU delirium a risk factor for PTSD
- HOWEVER, fairly new area of research
- Inconclusive findings to-date
 - * Some research suggests sedation level is a risk factor for delirium and PTSD
 - * BUT, delirium per se does not NECESSARILY affect the risk of PTSD
 - * PTSD, anxiety or depression might be affected by the type of memories patients have (deluded memories)
 - * Deluded memories tend to be associated with anxiety after discharge

