DELIRIUM

A nonspecific, potentially preventable, and often reversible disorder of impaired cognition, which results from several causes in ICU patients.

Prompt recognition is important to reduce modifiable risk factors and start treatment.



WHAT IS DELIRIUM?

- · Acute state of confusion with:
- · Fluctuating levels of consciousness
 - Inattention
 - · Disorganized thinking

Hyperactive

- · Agitated, irritable. "ICU psychosis" <2% of cases</p>
- **Hypoactive**
- · Lethargy, flat affect · Often unrecognized
- 44% of cases

Mixed

54% of cases

RISK FACTORS FOR DELIRIUM

Patient-related

- Age >65 years
- · Pre-existing cognitive impairment or
- neurologic disorder · Comorbid conditions
- Malnutrition
- Alcoholism
- Prior history of delirium

Visual or hearing deficit

· Unfamiliar environment

Environment-related

Social isolation

· Use of restraints

Immobility

· Stress

Pain

Illness-related

- · Illness severity
- Stroke
- Dehydration
- Infection
- · Hypothermia/fever
- Hypoxia
- Electrolyte disturbances

Medication-related

- Polypharmacy (addition of >3
- medications) Benzodiazepine use
- · Nicotine or alcohol withdrawal
- · Psychoactive medications, anesthetics, or anticholinergics

WHY DOES DELIRIUM MATTER?

- Increased risk of prolonged ICU and hospital stay
- · Increased risk of mortality
 - Increased risk of long-term cognitive impairment
 - Reduced functional status at 3 & 6 months after ICU discharge
- Early sign of sepsis

SCREENING TOOLS

- Assess level of consciousness before delirium screening
- · Richmond Agitation-Sedation Scale (RASS) · Screening tools for delirium in adults will assess judgement and
- attentiveness, with deficits in either suggesting delirium
 - Confusion Assessment Method for the ICU (CAM-ICU)
 - · 80% sensitivity, 96% specificity
 - Intensive Care Delirium Screening Checklist (ICDSC)
 - 74% sensitivity, 82% specificity

TREATING DELIRIUM

- Assess and treat modifiable risk factors
 - Avoid benzodiazepines and other sedative-hypnotics
 - Avoid physical restraints to manage behavioral symptoms · Treat dehydration, infection, and other underlying causes
- ABCDEF bundle
 - · Evidence-based guide of organizational changes needed for optimizing ICU patient recovery
 - Early mobilization, promotion of sleep hygiene, and preventing sleep disruption may reduce incidence and duration of delirium
- **Medications**: For symptomatic relief (may not affect delirium duration)
 - Haloperidol (Haldol)
 - · Most titratable, used in acutely agitated
 - · Quetiapine (Seroquel)
 - · Slow onset, short half-life, used for insomnia or agitation Olanzapine (Zyprexa)
 - · Used acutely, long half-life
 - · Dexmedetomidine (Precedex)
 - · Useful in refractory hyperactive delirium