



SEDATION & DELIRIUM

Analgesia-first · Light sedation · ABCDEF bundle

PAIN

first

RASS

Richmond Agitation-Sedation Scale · target 0 to -2

Score	Term	Description
+4	Combative	Violent; danger to staff
+3	Very agitated	Pulls / removes tubes; aggressive
+2	Agitated	Non-purposeful movement; fights vent
+1	Restless	Anxious, not aggressive
0	Alert & calm	-
-1	Drowsy	Awakens > 10 s to voice
-2	Light sedation	Awakens < 10 s to voice
-3	Moderate	Moves to voice, no eye contact
-4	Deep	Responds to physical stimulus only
-5	Unarousable	No response to voice or physical

CAM-ICU

Confusion Assessment Method - ICU

Assess only if RASS ≥ -3

Delirium = (1 AND 2) + (3 OR 4)

1 Acute onset

or fluctuating course of mental status

2 Inattention

errors on the letter squeeze test

3 Altered consciousness

any RASS other than 0

4 Disorganised thinking

fails logic questions / command

Pain tools: BPS = Behavioural Pain Scale · CPOT = Critical-Care Pain Observation Tool · SAT = Spontaneous Awakening Trial · SBT = Spontaneous Breathing Trial

THE ABCDEF BUNDLE

higher compliance → lower mortality

A

Assess & manage Pain

B

Both SAT + SBT

C

Choice of sedation
(light, non-benzo)

D

Delirium: assess &
manage

E

Early mobility &
exercise

F

Family engagement

SEDATION STRATEGY

- **Pain first** - score with BPS or CPOT; treat pain before adding a sedative
- **Target light** - RASS 0 to -2; daily SAT paired with the SBT
- **Non-benzo** - propofol or dexmedetomidine over benzodiazepines
- **2025 update** - dexmedetomidine over propofol when delirium is the priority

DELIRIUM: DO THIS

- **Screen** - every shift with CAM-ICU or ICDSC
- **Treat causes** - pain, hypoxia, sepsis, Na / glucose, withdrawal, drugs
- **Stop** - benzodiazepines and anticholinergics
- **Non-pharmacological FIRST** - reorient, mobilise, sleep, family, remove lines
- **Antipsychotics** - NOT routine; reserve for dangerous agitation

DRUG DOSES

adult; titrate to effect

Agent	Dose	Notes
Propofol	5-50 mcg/kg/min	Fast off; PRIS, ↓BP, hypertriglyceridaemia
Dexmedetomidine	0.2-1.4 mcg/kg/h	Light sedation; bradycardia, ↓BP; no respiratory depression
Fentanyl	25-100 mcg/h	Analgesia-first; bolus 25-50 mcg
Morphine	1-5 mg/h (bolus 2-4)	Avoid in renal failure (active metabolite)
Ketamine	0.1-0.5 mg/kg/h	Opioid-sparing analgesic adjunct; bronchodilator
Midazolam	0.02-0.1 mg/kg/h	Reserve: withdrawal, status; accumulates
Haloperidol	2-5 mg IV PRN	Agitation only, not prophylaxis; watch QTc

MULTIMODAL ANALGESIA (opioid-sparing): scheduled paracetamol, ketamine, regional / neuraxial blocks, dexmedetomidine, gabapentinoids for neuropathic pain; reserve opioids for boluses. Less opioid = less delirium, ileus and ventilator time.

PEARLS & PITFALLS

- Pain first: agitation is often untreated pain, not inadequate sedation.
- Do not run CAM-ICU on a deeply sedated patient (RASS -4/-5) - lighten first, then assess.
- Deeper is not safer - over-sedation prolongs ventilation, delirium and ICU stay.
- Antipsychotics do not prevent or shorten delirium; benzodiazepines are the most modifiable risk.

