



Management of Post ITU Psychosis

'Life after life-support'

How big a problem is it?

Is it an <u>ITU</u> problem?

Can we prevent / treat it?

How big a problem is it?





Is it an <u>ITU</u> problem?

PTSD

Treatment should be simple Rest and sleep important components

Pain Muscle Muscle w Contra Symptoms regarded as 'normal' when faced with a critical illness Previous Pain Muscle w Contra Contra Symptoms regarded as 'normal' when faced with a critical illness

Post traumatic stress disorder (PTSD)
Anxiety
Depression
Sleep problems

ysical morbidity

What to expect

What is 'normal'

The Intensive Care Society

Your Stay in Intensive Care
Information for Patients and Relatives

Produced by The Intensive Care Society with the support of the Department of Health, the BACCN and the National Outreach Forum.





Address acute issues
Pain
Sleep

Delirium

Agitation

Sympathetic 'storming'



Management of Delirium, Agitation and Sympathetic 'Storming'



After the acute phase of brain injury patients may experience either sympathetic storming or agitation

Agitation is seen in various neurological conditions, while sympathetic storming is seen predominantly after severe traumatic brain injury due to autonomic hyper-reflexia

Both make weaning from sedation and mechanical ventilation difficult

Sweating, palpitations and tremors in association with agitation may be seen in patients withdrawing from alcohol - if there is a history of alcohol abuse start Chlordiazepoxide as per UCLH formulary

DELIRIUM

In some patients agitation may be a manifestation of delirium - complete RASS and CAM-ICU if appropriate

Delirium risk factors Dehydration

Hypoxaemia Pain Infection Drugs Prolonged ICU stay Prolonged ventilation Visual, hearing or cognitive impairment Immobility Advancing age

Pharmacology For agitation: Haloperidol Risperidone Clonidine Olanzapine Dexmedetomidine

Prevention / Treatment

Environmental changes

where possible

Avoid benzodiazepines For sleep: Melatonin Zopiclone

Chloral hydrate

Richmond Agitation Sedation Scale (RASS)

Term Combative Very agitated Restless

Alert and calm Drowsy Light sedation

Moderate sedation Deep sedation Unrousable

AGITATION

GCS > 8

Disturbed behaviour seen as an early symptom in patients with post-traumatic amnesia (PTA)

Resolves with return of ability to retrieve and store information

In longer term usually due to personality changes

Symptoms Confusion

Restlessness and agitation Limited awareness Disturbed perception of environment Inability to learn new tasks

Treatment

(Best practice based)

Acute / rapid control - lorazepam / haloperidol see algorithm

To facilitate weaning consider the following prior to ceasing sedation

Risperidone NG 0.5 - 2mg/tds or Clonidine infusion 20-80mcg/hr (see protocol) (introduce NG dose [0.1mg tablets] as needed)

Avoid using sedation / analgesia to treat agitation (but exclude pain as cause) Exclude other causes (UTI / metabolic disturbance)

> Early mobilisation Minimise sensory stimulation Promote normal sleep pattern

Environmental factors Noise reduction

- ↑ exposure to natural light Optimum ambient temperature Improved communication Repeat orientation to day, time, place

SYMPATHETIC 'STORMING'

GCS < 8

Episodic and exaggerated response occurring spontaneously or to stimulus

Resolves over time but may take weeks

Should be managed in short term as symptoms can be severe and may exacerbate brain injury

Symptoms

Tachycardia Tachypnoea Diaphoresis Hypertension

Abnormal movement of limbs Arching of back (severe cases)

(Best practice based)

Atenolol NG or

Clonidine infusion (600mcg in 30ml normal saline) titrated until symptom control (20-80mcg/hr) (Observe for bradycardia and hypotension)

Consider weaning clonidine after 24-48 hours free of 'storming' - stopping abruptly may cause 'hypertensive crisis' especially if patient has been on large dose or for > 1 week

Avoid over-stimulation May require individual patient parameters to avoid over-treatment with sedation Early mobilisation / tilt table

RAPID CONTROL OF ACUTE AGITATION 2 Consider adding oral 1 Implement behavioural medication e.g. interventions, structure Response -Risperidone 0.5-4mg / day, environment and minimise Carbamazepine 400-600mg sensory stimulation twice daily No response Response 3 Give either: IV or IM Lorazepam 1-2 mg Response Wait 10 minutes 4 Add oral medication as 2 No response IM Haloperidol 2-10mg Response IV Haloperidol 2.5-5mg Wait 30 minutes No response Tail off over days or weeks 5 Repeat 3 to maximum: Response IM Haloperidol 18mg IV Haloperidol 10mg 6 Add oral medication as 2 Response Lorazepam 4mg Consider Neuropsychiatry referral No response Monitor for side-effects of drugs Cardiovascular: QT prolongation Seek consultant Hypotension advice Neurological: Extrapyramidal

- · Guidelines are largely best practice based
- Exclude other causes of agitation e.g. urinary retention
- Give IV/IM drugs over 2-3 min never give Diazepam IM
- In elderly, doses of 50% or less may be appropriate
- Guidelines do not apply to later maladaptive behaviour after brain injury

Transition from ITU to ward

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Critical Care Outreach

Discharge from Intensive Care
Information for Patients and Relatives

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Publication date: 2002 Date last reviewed: July 2012 Date next review due: July 2014 Leaflet code: UCLH/MB/CC/POST-CC/2

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After Critical Care

Information for patients and carers





Discharge home

Patient's GP

ITU follow-up clinic