Delirium, Anxiety and Terminal Agitation

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Case History 1– W.W.

- 57 yr old male, Lung adenocarcinoma with widespread bone metastases and pathological fracture right femur
- Phx Alcohol Excess and polysubstance misuse/dependence
- Lives alone, socially isolated, house barley habitable, many years in prison (for violent offences)
- Issues with uncontrolled pain, constipation and decreasing mobility
- Initially no cognitive impairment, AMT 4/4 although obnoxious and irritable
- Behavioural change over 1 week with increasing agitation, hostility, episodes
 of paranoia Fluctuating lucidity, unable to rationalise decisions, altered
 sleep/wake cycle

What are your thoughts?
How would you manage this situation?
Could this be managed at home?



Medication

Oxycodone 200mg/24hours via csci

Midazolam 5mg/ 24 hours via csci

Diclofenac 150mg/24 hours via csci

Oxynorm 50mg PRN 4-5 times daily

Paracetamol 1g qds

Seretide and Tiotropium Inhalers

Thiamine 100mg tds

Paroxetine 30mg od

Dexamethasone 8mg daily

Omeprazole 40mg

Nicotine Patch

Nitrazepam 10mg nocte



Differential Diagnosis

Anti-social personality disorder Alcohol related brain injury Hypercalcaemia

- ? Brain Metastases
- ? Terminal Agitation





Delirium - What do we know?

- Common
- Under recognised and under treated
- Bad outcome 25% mortality and high morbidity
- Preventable and treatable
- But can persists for weeks or months after cause treated



Incidence

General Medicine In patient	11-14%
Old Age Medicine In patient	20-29%
Intensive Care	19-82%
In patients with dementia	56%
In patients with palliative care needs	47%
Nursing Home	20-22%

Inouye S.K. et al (2014) Delirium in Elderly People, *Lancet*



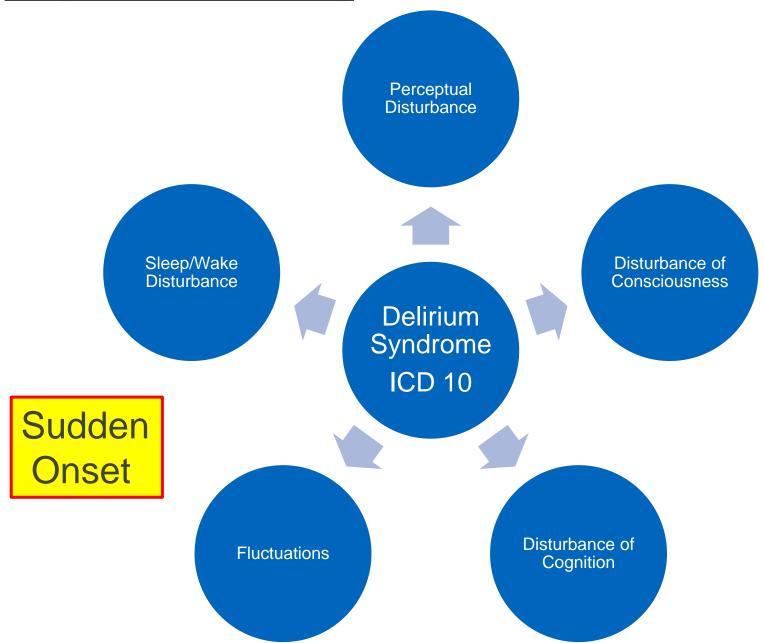
Risk factors for delirium?

- Acute Illness
- Sensory Impairment
- Recent Discharge from hospital
- Dementia
- Polypharmacy
- Depression
- Patients approaching end of life

- Age> 70 years
- Recent Surgery
- Use of Opioids, benzodiazepines, anti-cholinergics
- Frailty
- Catheterised
- Acute or Chronic Pain



Diagnosis v's screening



Delirium v's Dementia

Feature	Delirium	Dementia
Mode of onset	Acute/ subacute	Chronic
Poor attention	Characteristic	Late feature
Conscious Level	Often affected ,fluctuates	Normal
Hallucinations	Common	Late feature
Fear, agitation, aggression	Common	Not common in early stages
Speech	Slurred	Normal
Motor signs	Postural Tremor, myoclonus, asterixis	None, or late feature



Subtypes:

- **Hypoactive** slowed motor function, lethargy, decreased awareness and interaction, misdiagnosed as depression
- Hyperactive increased arousal agitation
- Mixed features of both, fluctuates (worse at night, lucid intervals during the day)



Assessment if clinical suspicion

SQID

- Single Question to Identify Delirium
- "Do you think (name of patient) has been more confused lately"?



Identifying Delirium

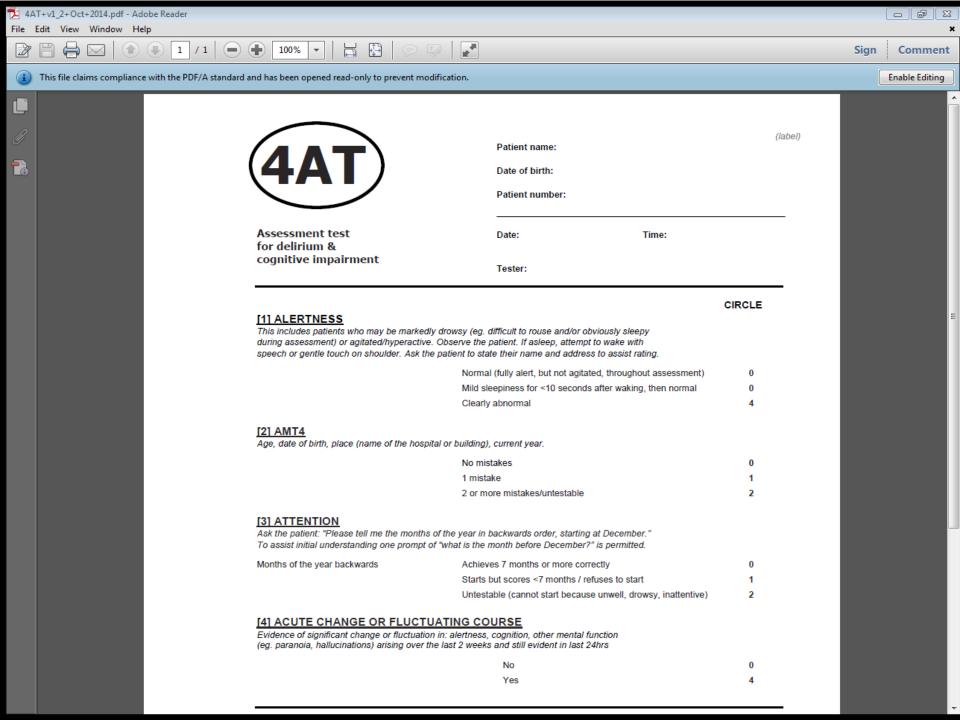
Table 6: Confusion Assessment Method (CAM) Diagnostic Algorithm

- Acute onset and fluctuating course
- 2) Inattention, distractibility
- 3) Disorganized thinking, illogical or unclear ideas
- 4) Alteration in consciousness

The diagnosis of delirium requires the presence of both features 1 AND 2, plus EITHER feature 3 or 4.

Adapted from: Inouye S, van Dyck C, Alessi C, et al: Clarifying confusion: The confusion assessment method. Ann Intern Med 113:941, 1990.





<u>Abbreviated Mental Test (AMT 4) – assess baseline cognition</u>

- Age
- Date of Birth
- Place
- Year

 Little loss of accuracy in detecting marked cognitive impairment when compared to the AMT 10



Causes:

D rugs (new or withdrawal)

Ethanol

L eLectrolytes

Infection

Respiratory (02/CO2)

ntracranial (bleed / infarct / tumour)

Urinary retention (and Constipation)

Myocardial Infarction

Sugar



Assessment of Delirium

- Medication Review changes, concordance, rationalise
- Investigations as appropriate with aims of care
- Optimise Management of Co-morbidity
- Often multiple causes but in up to 30% no cause found
- 'Time Bundle' being used in GRI



Multi-component intervention to manage and prevent delirium

- Medical and Nursing Management pain assessment, prevent hypoxia, treat constipation etc, person centred care e.g. "Getting to know me document"
- Environmental and General Measures orientation, mobilisation, sleep hygiene, avoid inappropriate interventions
- Assessment of Capacity is AWI section 47 needed for basic care?
- Treatment of Delirium Symptoms





dignity &

GOOD PRACTICE GUIDE

Covert Medication

Treatment of Delirium Symptoms

- Only consider medication if essential to control symptoms
- First Choice: Haloperidol 0.5-1mg orally
 Haloperidol 0.5mg S/C/IM
- Avoid if signs of Parkinsonism or Lewy Body Dementia
- Second Choice: Lorazepam 0.5- 1mg orally
 Midazolam 2-5mg s/c
- Benzodiazepines do not improve cognition but may help anxiety, use with caution.
- Higher doses may be required
- Other antipsychotics may be considered Risperidone, Olanzapine, Quetiapine



Dementia and Delirium

What we do know:

- 1. Delirium often does not fully resolve
- 2. After delirium dementia is more common
- 3. People with dementia get delirium more

Theories

- 1. Delirium as a marker
- 2. Delirium as a trigger
- 3. Delirium as a cause
- 4. Treatment of Delirium as a cause

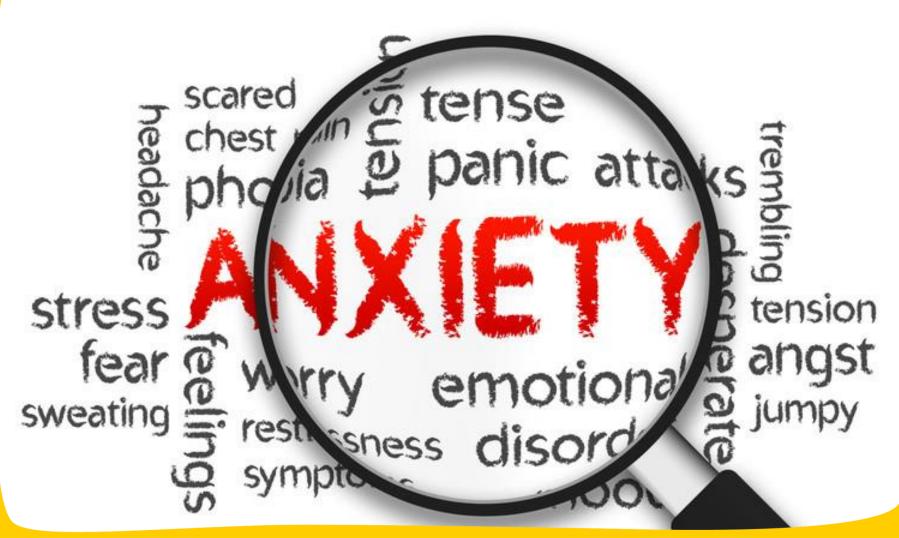
• 69% of patients with delirium will have dementia with 5 years (MacLullich AM et al (2009) Delirium and Long Term Cognitive Impairment, International Review of Psychiatry)



Follow Up - Whose job is delirium?

- High risk of further episodes of delirium
- Can persist for weeks or months after cause treated
- Progression to Dementia





Managing Anxiety in Palliative Patients



Case History 2 – W.P.

- 72yr old lady Pleural Mesothelioma initially diagnosed Jan 2014
- Worked for MOD before retiring, contracted mesothelioma when Clerical Worker in factory that made asbestos panels
- Always been a very fit and active person walking groups etc. Lives alone, widowed, very supportive daughter.
- Initial MDT decision 'watchful waiting'
- Dec 2014 Progressive chest wall disease
- Jan 2015 Completed Palliative Radiotherapy
- March 2015 Acute Hospital Admissions Septic shock, AKI, HDU briefly responded well to treatment and discharged
- Since discharge anxiety a major issue, on wakening in the morning very anxious and episodes during the day when become very emotional and distressed
- What are your thoughts?
- How would you manage this situation?



Medications

- Bendroflumathiazide 2.5mg
- Carbocisteine 750mg tds
- Latanoprost
- Laxido 1 sachet daily
- MST 20mg bd
- Oramorph 10mg prn

- Paracetamol 1g qds
- Salbutamol 2 puffs prn
- Symbicort 2 Puffs bd
- Zopiclone 3.75mg nocte



Anxiety in Advanced Illness

- Not inevitable
- Acute or Chronic
- Prevalence increases with advancing disease
- Often presents as complex mix of physical and psychological symptoms



Symptoms of Anxiety

Psychological

Apprehension

Cannot distract self

Depersonalisation

Derealisation

Indecisiveness

Irritability

Intrusive thoughts of death

Tense, unable to relax

Poor Concentration

May be associated depressive illness

Physical

CNS – headache, tremor, fatigue, dizziness, paraesthesia ,panic attacks

GI - nausea, dry mouth, indigestion, diarrhoea

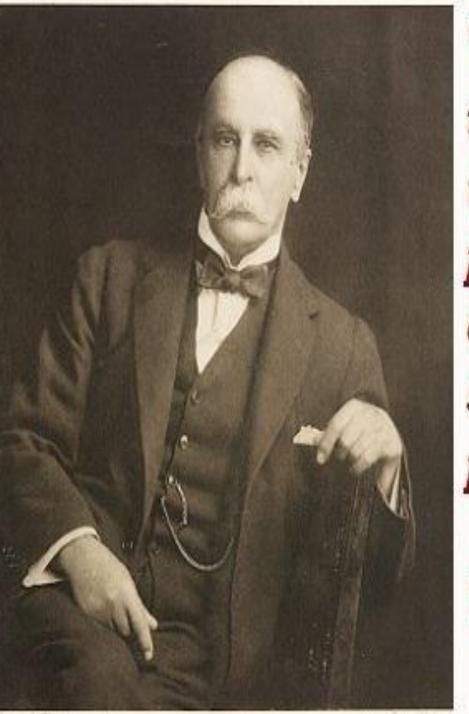
CVS – Palpitations, chest pain

RESP – Hyperventilation

GU – Urinary frequency, impotence

SKIN - rash, sweating





"It is much more important to know what sort of a patient has a disease than what sort of a disease a patient has."

William Osler

Complex relationship with other symptoms

Physical:

Pain, other symptoms general decline

Social:

Relationships with family, role in family, work role, financial concerns

Anxiety

Psychological:

Grief, depression, anger, adjustment, future fears, regrets

Spiritual:

Existential Issues, Religious faith, Meaning of Life and Illness, Personal Values



Causes of anxiety

Uncontrolled Symptoms

- Insomnia
- Breathlessness
- Nausea
- Severe Pain

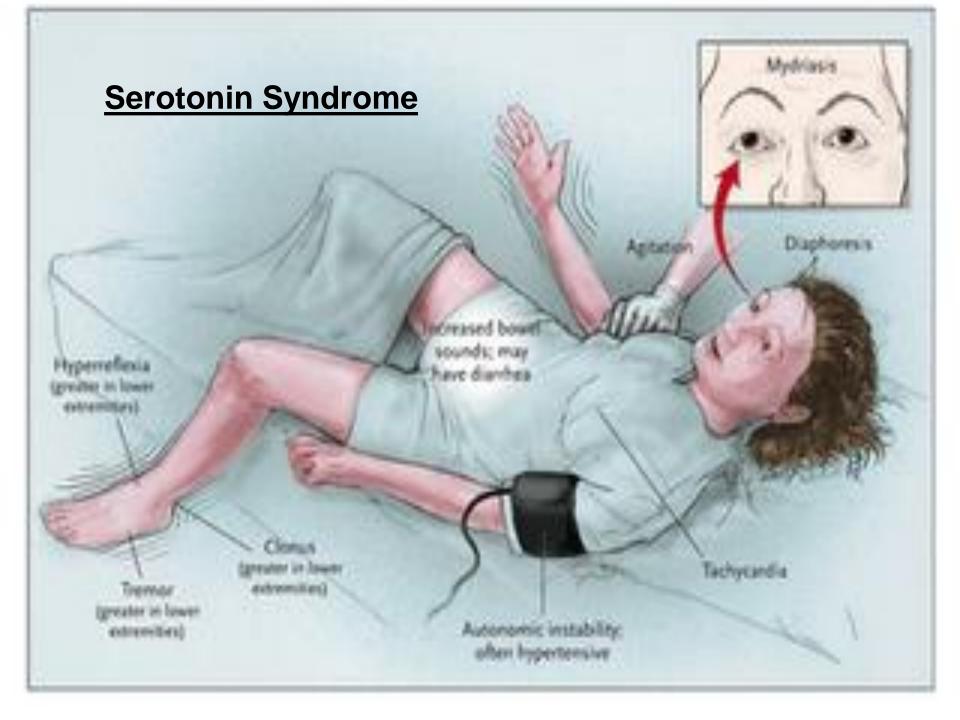
Physical Disorders

- Brain tumour
- Cardiac Arrhythmias
- Hyperthyroidism
- Hypoglycaemia

Drugs

- Corticosteroids
- Benzodiazepines
- Opioids
- Bronchodilators
- Drug Withdrawal (inc. Nicotine)
- SSRIs





<u>Assessment</u>

- Need to look for it!
- Careful listening
- Open questions How are you are coping? It seems a lot has happened in a short space of time? How are you in your mood and your spirits?
- Don't normalise it / give false reassurance! Common obstacle to evaluation and treatment
- Corroborative history from relatives/carers often helpful



Management - Non Pharmacological

- Regular Contact
- Correct any misconceptions
- Allow patients own coping strategies
- Support from the Hospice Day Therapy, Complimentary Therapies,
 Patient and Family Support Team for counselling/support
- Support for carers as well Confident Caring Programme
- External Agencies Maggies, Beatson Psychology Team
- CBT, Solution Focused Therapy, Music Therapy



Management Pharmacological

Benzodiazepines e.g.

- Lorazepam 0.5-1mg po prn (Max 4mg daily)
- Diazepam 2-5mg regularly or prn

Antidepressants

- Particularly if anxiety- depression
- Mitazapine 15mg nocte and titrate up to 45mg if needed
- Sertraline 50mg od
- Pregabalin 75mg bd Generalised Anxiety Disorder

Antipsychotics

If associated hallucinations/paranoia



Terminal Agitation



Case History 3 J.D.

- 45 yr old lady NSCLC Right Upper Lobe invading chest wall
- Severe neuropathic pain complex management including multiple neuropathic agents and Ketamine
- Palliative Radiotherapy
- Ex IVDA on Methadone
- Multiple bereavements both parents died young age, brother died in hospice, other brother died aged 12 RTA
- No partner, 3 children daughter Emma due to have first grandchild
- Stoical and denies being frightened of dying.
- Atheist
- Increasingly agitated with pain, restless at night "can't settle"



Medications

- Gabapentin 900mg tds
- Amitriptyline 75mg nocte
- Clonazepam 1.5mg nocte
- Lidocaine Patch 5%
- Dexamethasone 2mg od
- Naproxen 500mg bd

Longtec 40mg bd
Oxynorm 15mg prn
Methadone 120mg od
Omeprazole 40mg od
Nicotine Patch

What are your thoughts?
How would you manage the situation?
Could you keep her at home with escalating agitation?



Alfentanil 4mg /24hrs via csci Haloperidol 5mg/24hrs via csci Midazolam 20mg/24 hrs

Felt to be dying. Still agitated, sleeping for short periods, then becoming very restless trying to get out of bed.

What would you do now?



Diamorphine 60mg/ 24hrs via csci Midazolam 50mg/24hrs Levomepromazine 100mg/24hrs

Diamorphine 10mg s/c prn
Midazolam 10mg s/c prn
Levomepromazine 25mg s/c prn
Phenobarbitone 100mg s/c prn



Terminal Agitation

- Terminology Confusing and open to misinterpretation Terminal Agitation/Restlessness, Palliative Sedation, Deep Continuous Sedation
- Use of appropriate sedative drugs carefully titrated to the cessation of symptoms, not the cessation of life
- Helping somebody when they are dying not Helping somebody to die

Notes: further details here (or delete) Source: details here (or delete)





SEPTEMBER 3, 1939 'IT MUST BE WAR. THERE'S NO WAY OUT'



BRYONY GORDON MY HOLIDAY WAS À SIGNAL FAILURE

NOTEBOOK PAGE 22

The Daily Telegraph

Thursday, September 3, 2009

BRITAIN'S BEST-SELLING QUALITY DAILY

Sentenced to death on the NHS

Treatment of seriously ill patients 'withdrawn too soon'
 Palliative care is in crisis, warn leading doctors

By Kate Devlin Medical Correspondent

PATIENTS with terminal illnesses are being made to die prematurely under an NHS scheme to help end their lives, leading doctors claim

In a letter to The Daily Telegraph, a group of experts who care for the terminally ill claim some patients are being wrongly judged as close

Under NHS guidance introduced in England, medical staff can withdraw fluid and drugs from dying patients and many are put on continuous sedation until they pass

Millard, Emeritus Professor of Gerintrics, University of London, Deter Hargreaves, a consultant in
palliative medicine at St Luke's
cancer centre in Guildford, and
four others.

people man received point of the
care on the NHS.

The scheme at the centre of the
new warning – the Liverpool Care
reduce the suffering of patients in

Forecasting death is an inexact referedsing death is an inexact science," they say. Patients are being assessed as close to death "without regard to the fact that the

experts say.

As a result, the scheme is causing a "national crisis" in patient food to patients."

It has been signed by palliative a report by the Patients Association care specialists including Peter Millard, Emeritus Professor of Gerpeople had received poor or cruel

their final hours.

Developed for cancer patients in a Liverpool hospice by Marie Curie, the cancer charity, it has been

away. But this approach can also mask signs of improvement, the experts say.

As a result, the scheme is causing a "national crisis" in patient care, the letter states.

It has been signed by palliative in a report by the Patients Association is fully and find the patients. The warning comes a week after a report by the Patients Association is in use in more than 300 hospitality. The patients are possible to other life-threatening conditions. It was recommended as a model by the National Institute for Health and Clinical Excellents are also dehydrated, for instance.

The warning comes a week after a report by the Patients Association is in use in more than 300 hospitality. tals, 130 hospices and 560 care

Under the guidelines, the assess-ment that a patient is close to death is made by the entire medical team, including a senior doctor.

They look for signs that can include losing consciousness or whether the patient is having diffi-

When a decision has been made to place a patient on the pathway, doctors are then recommended to consider removing medication or invasive procedures, such as intravenous drips, which are no longer

The patient could still be offered food and water if able to eat and culty swallowing medication.

However, doctors say that these nursing care. Dr Hargreaves said

palliative medicine for more than 20 years and I am getting more concerned about this "death path-

way" that is coming in.
"Patients who are allowed to "Patients who are allowed to become dehydrated and then become confused can be wrongly syringe drivers which continually

put on this pathway."

He added: "What they are trying to do is stop people being over-

that the system depended, however, on constant assessment of a patient's condition.

He said some patients were being "wrongly" put on the pathway, which created a "self-fulfilling prophecy" that they would de.

He said: "I have been practising palliative medicine for more than 20 years and I am getting more concerned about his "dealh pathway."

improvement in their condition. Prof Millard said that it was Continued on Page 2

Brown sours US relations

on I colzowhio

President caught in surveillance operation



Schoolboys 'plotted Columbine atrocity'

By Nigel Bunyan

TWO British teenagers



Treatment

- Prevent the preventable identify high risk groups
- Early recognition of delirium prevent escalation
- Reverse the reversible relieve physical symptoms, treat constipation, look for urinary retention
- Review medication opioids, steroids etc
- Communication and Support for carers



First line drugs

- Midazolam 2-5 mg prn
- Maintain with syringe pump (10-30 mg/24hrs) if required

Second line drugs

- Leveompromazine
 12.5- 25mg s/c if
 established agitation
- Maintain with 50 –
 200mg/24hrs csci

Third Line Drugs

- Phenobarbitol
- 100-200mg s/c,
- Maintain with 600-1200mg/24 hrs



Learning Resources:

NES Learn Pro Modules

'An introduction to Delirium'

'Delirium: Prevention Management and Support'

www.scottishdeliriumassociation.com www.palliativecareguidelines.scot.nhs.uk

We're here for people living with any terminal illness, and their families. We offer expert care, guidance and support to help them get the most from the time they have left.

mariecurie.org.uk

Charity reg no. 207994 (England & Wales), SC038731 (Scotland) A003

