

# Depression and Anxiety in Palliative Medicine



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# Overview

## Depression

- Definition
- Diagnosis
- Distinguishing depression from sadness
- Explanation
- Management

## Anxiety

- Definition
- Symptoms
- Causes
- Management

# Depression



# Depression definition

Depression is a common mental disorder that presents with low mood, loss of interest or pleasure, feelings of guilt or low self-worth, disturbed sleep or appetite, low energy, and poor concentration. It affects a person's physical functions and social interactions

# Depression

- Occurs in 5–15% with advanced cancer
- A further 10–15% describe depressive symptoms
- Important to identify
- Exact cause is unknown
  - Monoamine theory – depression results from a decrease in brain concentrations of noradrenaline and serotonin

# Reasons for missed diagnosis

Why might the diagnosis of depression be missed in the palliative group of patients?

# Reasons for missed diagnosis

- Low mood may be seen as 'reactive' or 'understandable' in this group
- May be diurnal variation
- Social skills may mask low mood
- May be masked by concurrent anxiety
- May be expressed via physical symptoms

# Risk factors for depression

Think about some of the risk factors which put people at higher risk of developing depression



# Risk factors for depression

## Psychosocial

- Previous depression
- Obsessional personality
- Inability to express emotions
- Lack of supportive relationship
- Loss of independence
- Recent bereavement

## Physiological

- Unrelieved pain
- Drugs
- Biochemical
- Endocrine
- Vitamin deficiency
- Cerebral eg stroke, cerebral tumour, MS, epilepsy, head injury

# Diagnosing depression

How is depression diagnosed?

What features / behaviour would make you suspect a diagnosis of depression in a patient you were caring for?

# Diagnosing depression

- At least 5 of the following symptoms must be present including one or both of the 1<sup>st</sup> two
  - **Depressed mood**
  - **Diminished interest or pleasure in most activities**
  - Significant weight gain or loss
  - Insomnia or hypersomnia
  - Psychomotor agitation or retardation
  - Indecisiveness/ poor concentration
  - Lack of energy
  - Feelings of guilt and worthlessness
  - Suicidal ideas

# Screening tools

- HAD scale - ?validity in patients with advanced cancer
- Edinburgh depression scale (postnatal women) – more reliable (Cox et al, 1987)
- ‘Are you depressed?’ – shown to be a reliable and sensitive screening question (Chochinov H et al, 1997)

# Diagnostic challenges

- Diagnosing depression is difficult in the presence of a debilitating illness
- Somatic symptoms of depression may overlap with those of cancer
  - Anorexia
  - Weight loss
  - Constipation
  - Sleep disturbance
  - Loss of libido

# Differential diagnosis

- Adjustment reaction
- Demoralised
- Sadness
- Grief

# Distinguishing depression and sadness

Which features are more typical of depression as opposed to general sadness?

# Distinguishing depression and sadness

## Both

- Loss of interest
- ↓ concentration
- Tearfulness
- Anxiety
- Poor sleep
- Tiredness
- Anorexia
- Suicidal ideas

## Depressive Features

- Loss of emotion and pleasure
- Social withdrawal
- Irritability
- Physical anxiety
- Hopelessness and worthlessness
- Excessive guilt
- Requests for euthanasia
- Intractable pain
- Suicide attempts



# Explanation

- Depend on the patients physical and psychological state
- Patients often helped by being told that depression is not shameful
- eg *'it seems to me that you've developed a depressive illness....Being physically ill is hard work and emotionally exhausting. Ongoing stress reduces certain chemicals in the brain and this results in depression... Antidepressants are tablets which help the brain replenish these chemicals'*

# Management - 1

## Correct the correctable

- Prescribe specific treatment for medical causes

# Management - 2

## Non drug treatment

- Explanation and assurance that symptoms can be treated
- Consider day care centre
- Psychological treatments may benefit
- Other psychosocial professionals eg chaplain, creative therapists
- BEWARE overwhelming pt with multiple referrals

# Management - 3



## Drug treatment

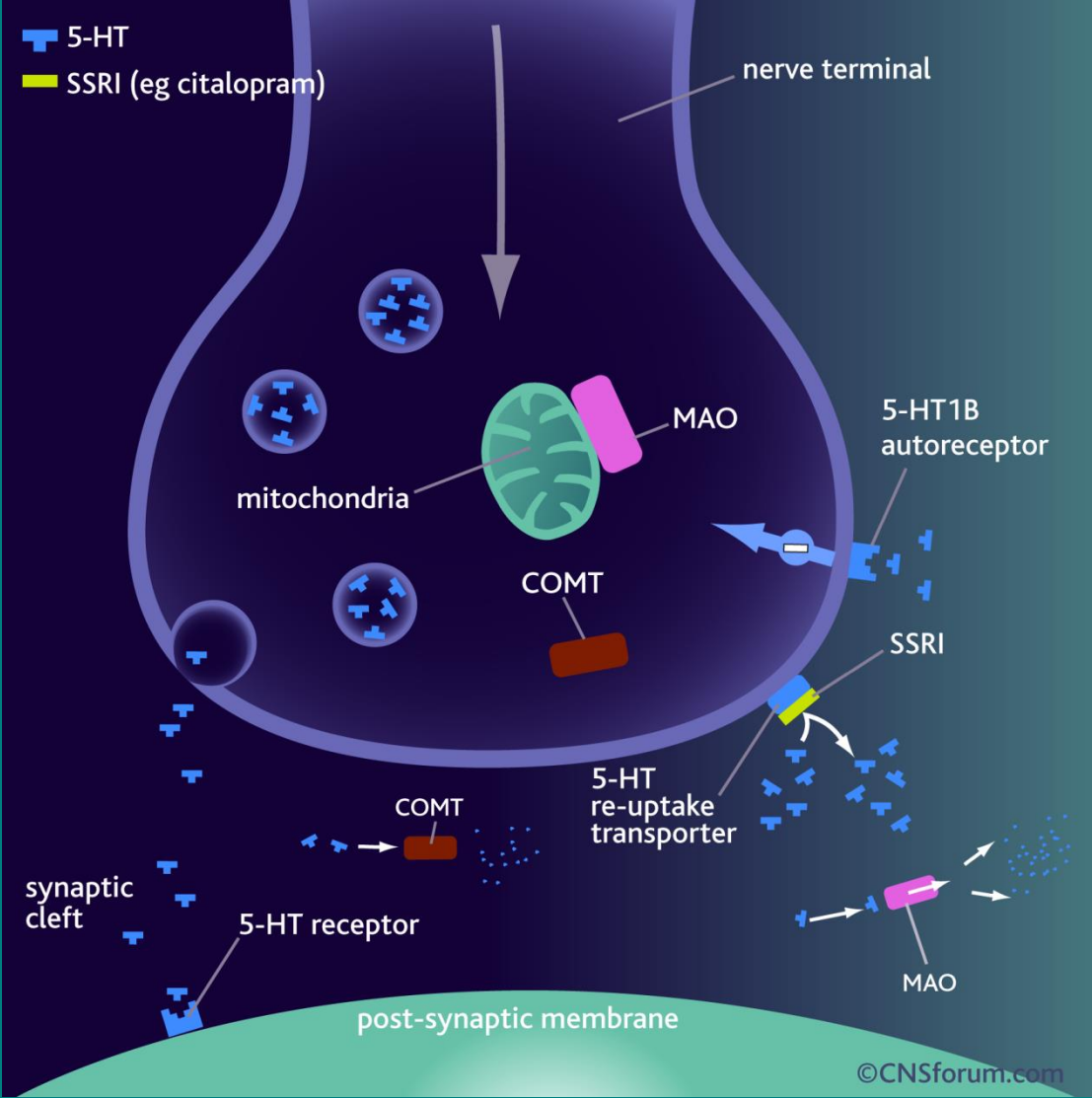
- Choice of antidepressant depends on adverse effects and patients symptoms
- The initial and continuing doses – generally lower in debilitated patients
- Often interval of 2-4 weeks before evidence of benefit
- Avoid abrupt cessation
- Be aware of interactions with other medication

# Management – 4

## Commonly used antidepressants

Selective serotonin reuptake inhibitors –  
selectively inhibit the reuptake of serotonin  
(5HT)

- E.g. citalopram, paroxetine, sertraline
- Side effects: GI disturbance, less sedating.  
Fewer antimuscarinic and cardiotoxic se  
compared to TCAs

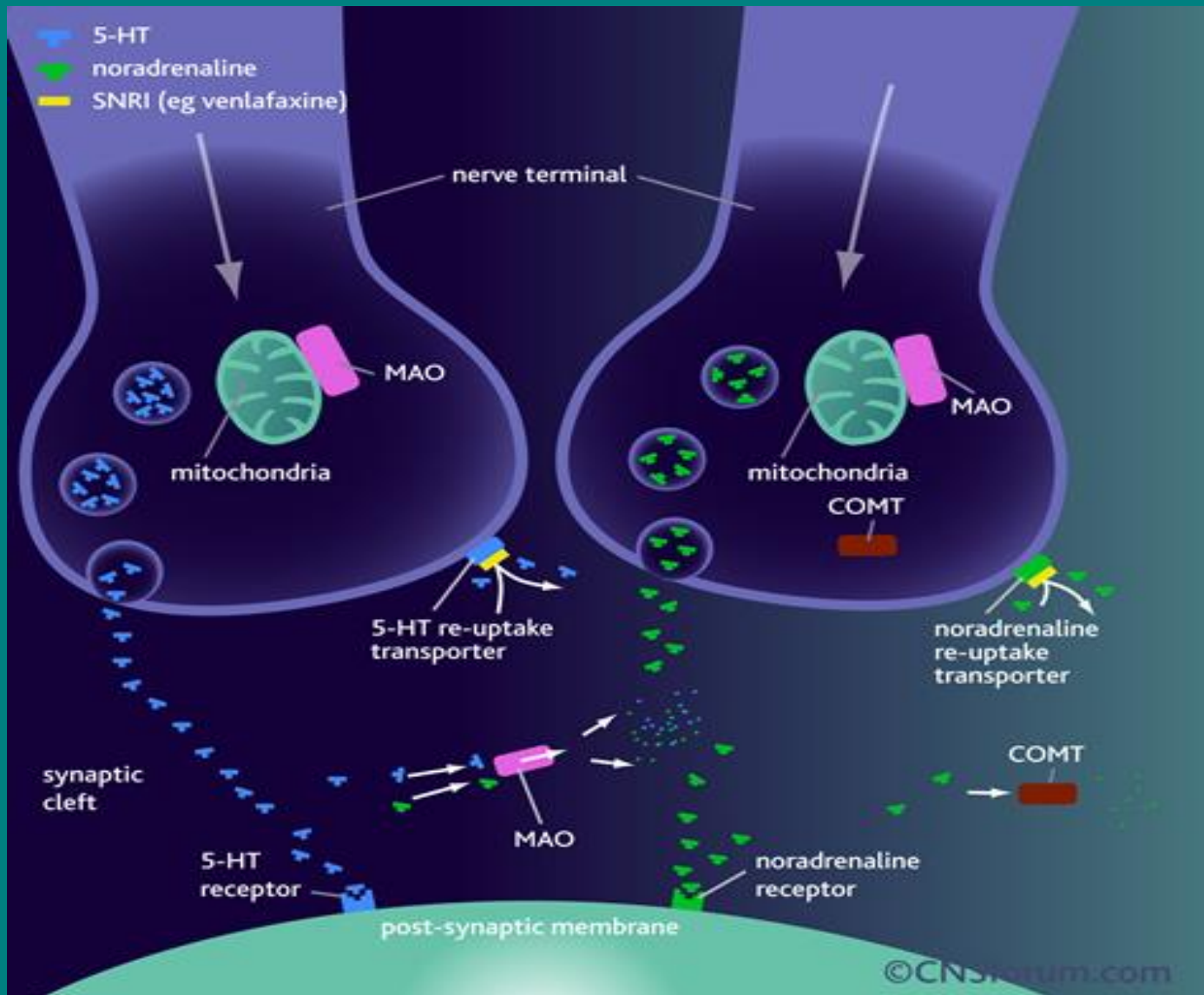


# Management – 5

## Commonly used antidepressants

### Serotonin noradrenaline reuptake inhibitors (SNRI)

- E.g. venlafaxine, duloxetine
- Block proteins in the pre synaptic neuron that re-uptake serotonin and noradrenaline
- This increases concentration in synaptic cleft and therefore brain



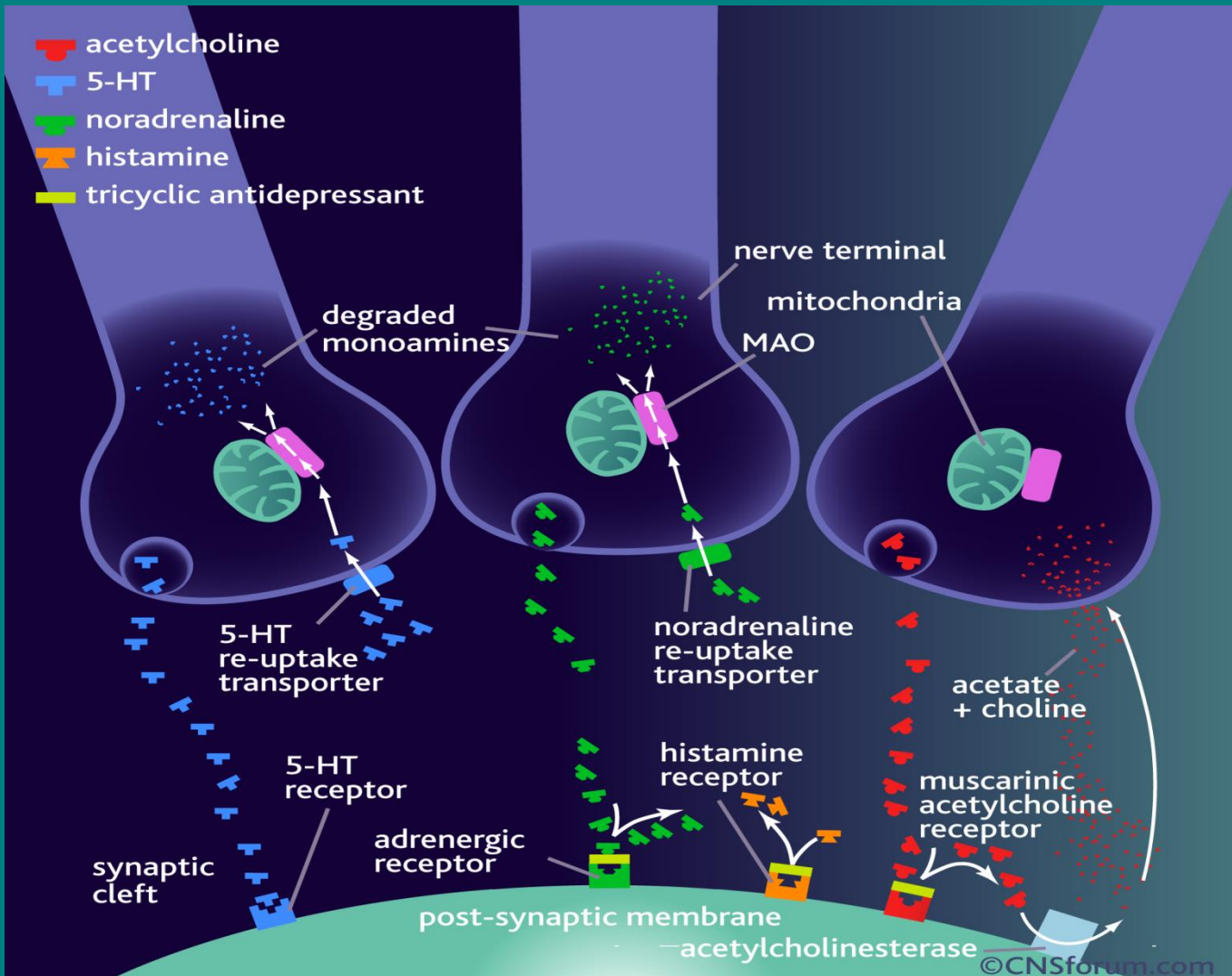


# Management – 6

## Commonly used antidepressants

Tricyclic antidepressants – block reuptake of serotonin (5HT) and noradrenaline. Also block muscarinic, H1 and  $\alpha$ 1 receptors

- eg amitriptyline, dosulepin, imipramine
- Side effects: dry mouth, sedation, blurred vision, postural hypotension, arrhythmias
- Can be useful for neuropathic pain
- More likely to be discontinued due to side effects
- Toxic in overdose

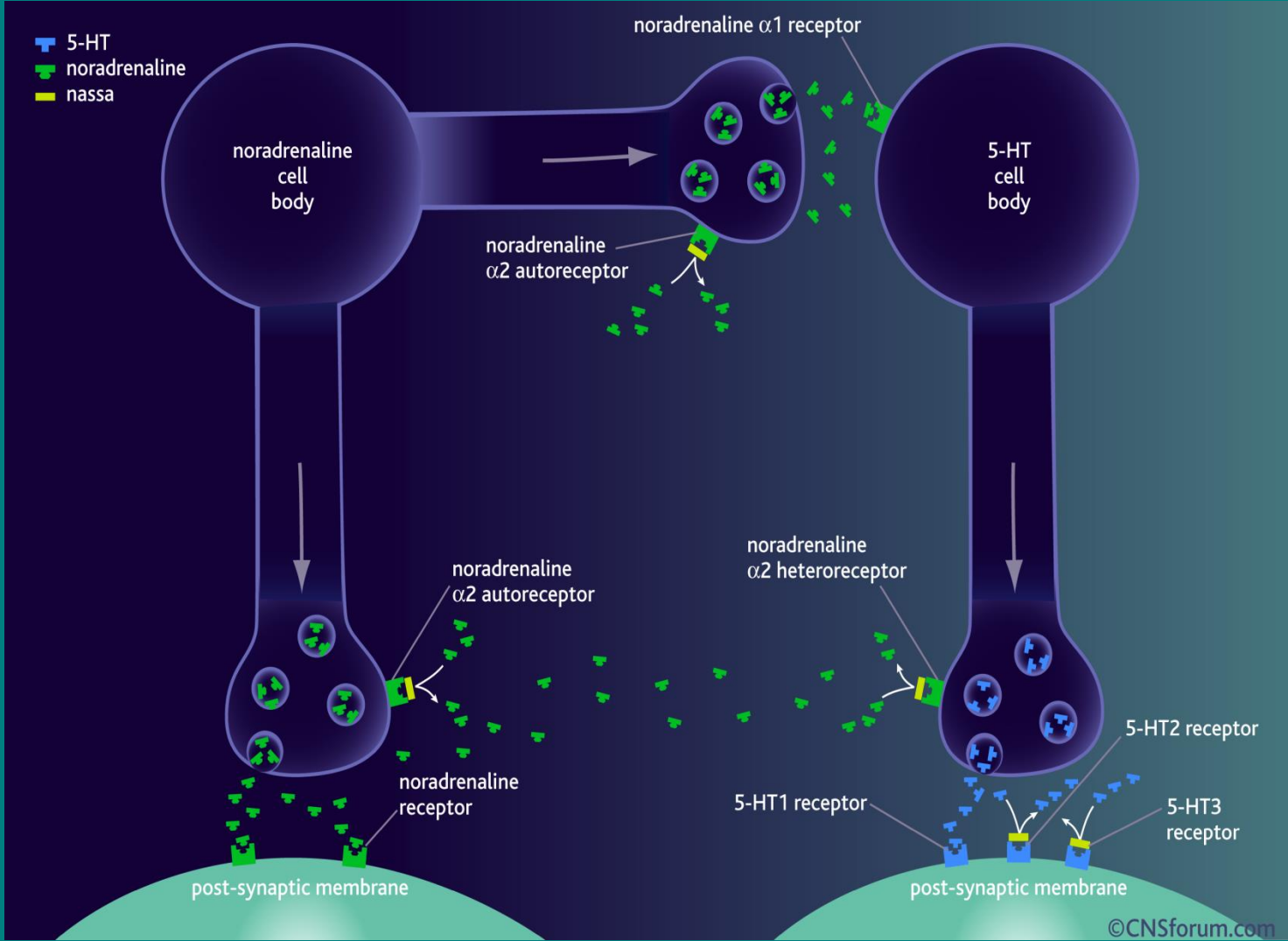


# Management – 7

## Commonly used antidepressants

### Noradrenergic and specific serotonergic antidepressant, NaSSA

- E.g. mirtazepine
- Side effects: increased appetite, weight gain, sedation (? beneficial)
- Fewer anti-muscarinic side effects but more expensive than amitriptyline
- Good choice if marked anxiety/agitation



# Anxiety



# Anxiety definitions

- Anxiety is an unpleasant emotional experience which may be acute (transient) or chronic (persistent). It varies in intensity and can cause poor sleep, frightening dreams, and a reluctance to be left alone

Twycross R et al

- Anxiety is a state of intense apprehension, uncertainty, and fear resulting from the anticipation of a threatening event or situation, often to a degree that normal physical and psychological functioning is disrupted

Stedman's Medical Dictionary

# Symptoms of anxiety

What are some of the symptoms you may see in a patient suffering from anxiety?

# Symptoms of anxiety

- Persistently tense and unable to relax
- Worry
- Cannot distract self or be distracted
- Poor concentration
- Indecisiveness
- Insomnia
- Irritability
- Sweating, tremor, nausea
- Panic attacks
- Severe anxiety: may inc. palpitations, breathlessness, dry mouth, dysphagia, anorexia, nausea, diarrhoea, dizziness, sweating, tremor, headache, weakness



# Causes of heightened anxiety

What factors may cause heightened anxiety in patients with advanced cancer?  
(it might help to break this down into situational, organic, psychiatric, drugs)

# Causes of heightened anxiety

## Situational

- Adjustment reaction
- Fear of hospital, chemo, radiotherapy
- Worry re family, money

## Organic

- Severe pain
- Insomnia
- Weakness
- Nausea
- Breathlessness
- Brain tumour

## Psychiatric

## Drugs

- Corticosteroids
- Drug induced hallucinations eg benzodiazapines, opioids
- Withdrawal from eg benzodiazapines, antidepressants, alcohol

## Other

- Wasted opportunities, guilt
- Worry re future eg pain, mental impairment, loss of independence
- Thoughts about after death

# Evaluation

- Detailed evaluation assessment very important
- Family may provide useful background information
- Review medication eg corticosteroid, SSRI recently started?

# Management - 1

## Correct the correctable

- Relieve pain and distressing symptoms
- Encourage sharing of worries and fears
- Correct misconceptions
- Develop a strategy for coping with uncertainty

# Management - 2

## Non drug management

- Anxiety management training
- CBT
- Music therapy
- Art therapy
- Hypnotherapy
- Brief psychotherapy
- Relaxation therapy

# Management - 3



## Drug treatment

- Benzodiazepine e.g. temazepam 10-40mg nocte, diazepam 5-10mg nocte, lorazepam 500microg PRN
- Antidepressant esp. if anxiety-depression or panic attacks
- Antipsychotics if psychotic features, associated delirium or benzodiazepines are aggravating the situation
- $\beta$  adrenoceptor blockers e.g. propranolol. Effective in alleviating autonomic symptoms of anxiety (tremor, palpitations, sweating)

# Management - 4

## Benzodiazepines

- Anxiolytic, hypnotic, muscle relaxant and anticonvulsant actions
- Caused by enhancement of GABA mediated inhibition in the CNS
- Chronic treatment may cause cognitive impairment, tolerance and dependence
- Metabolized in the liver to active metabolites
- Different benzodiazepines have different half lives which affects choice depending on situation
- Side effects: drowsiness, agitation, ataxia
- Withdrawal may occur on stopping – nausea, anxiety, depression, insomnia

# Any Questions?





# References

- Cox et al (1987) Edinburgh Postnatal depression scale. British Journal of Psychiatry. **150**:782-6
- Chochinov H et al (1997) 'Are you depressed?' Screening for depression in the terminally ill. American Journal of Psychiatry. **154**:674-6
- Twycross R and Wilcock A (2001) Symptom management in advanced cancer 3<sup>rd</sup> Ed. Radcliffe medical press Ltd
- Twycross R et al (2002) Palliative care formulary. Radcliffe medical press Ltd
- Neal MJ (1997) Medical pharmacology at a glance 3<sup>rd</sup> Ed Blackwell science