TOXICOLOGY SEDATIVE POISONING

Mental Status

- CNS Depression
- Confusion
- Coma

Vital Signs

- Hypothermia
- Bradycardia
- Hypotension
- Apnoea/bradypnoea

Other Manifestations

- Variable pupils
- Hyporeflexia

Examples of toxic agents

- Benzodiazepines
- Barbituates
- Alcohol
- Gamma-hydroxybutyrate
- Imidazopyridine (zolpidem)

Pathophysiology

- Most sedatives increase the activity of GABA, the principle inhibitory neurotransmitter in the CNS.
- Many agents also interact with other neurotransmitter systems eg glutamate (suppression), dopamine and serotonin.

Treatment

- ABC and supportive management.
- If there is respiratory depression consider endotracheal intubation.
- In unconscious patients consider the possibility of serious head injury.
- Alcohol consider the need for treatment of Wernicke's encephalopathy.
- Benzodiazepines flumazenil is an antidote for benzodiazepine toxicity. It can induce seizures in those with benzodiazepine tolerance, epilepsy or coingestion of proconvulsant substances. Its use is limited to those with respiratory depression to avoid intubation. Always discuss with a senior prior to use.
- Barbituates charcoal haemoperfusion or haemodialysis can be considered in lifethreatening poisoning.