				 - symptoms of mild overdose including sweating, dry mouth & anxiety. - although the majority of ectasy patients are dehydrated, a proportion have hyponatraemia from water intoxication
				- more severe features include hypertonia to construct a proportionation & hypertension; supraventricular arrhythmias
			amphatamina	may follow with coma, convulsions and the risk of haemorrhagic stroke
clinical features: - hypotension, hypokalaemia, convulsions, ventricular arrhythmias & sudden cardiac arrest may result from severe poisoning			amphetamines	- rhabdomyolysis, metabolic acidosis, acute renal failure, DIC and organ failure may result / treatment:
treatment:	chloroquine		(including ectasy)	- benzodiazepines are useful for agitated or psychotic patients and may have central effect in reducing tachycardia,
- vasopressors may be required until hypotension is reversed together with diazepam for agitated patients			coldsy)	Y hypertension & hyperpyrexia
- hypokalaemia is common and may be protective in the early stage (it is self correcting and does not require aggressive replacement)	· · · · ·			 - if benzodiazepines fail to control hypertension, other agents such be used - hyperpyrexia should be treated in the standard manner; reports of the use of dantrolene have been published and
				specific centrally acting agents are being developed
- clinical effects in large overdose include tachycardia, hypotension arrhythmias and coma	clozapine			
 treatment is supportive; however, extrapyramidal symptoms can be treated with benztropine 				clinical features:
	1			- CNS, cardiovascular and respiratory systems are depressed
features - stimulation of both the peripheral and central nervous systems	1		barbiturates	 - cardiovascular depression is due to vasomotor centre depression and a toxic effect on myocardium and peripheral vessels.
- clincal features include euphoria, agitation, hyperthermia, seizures, confusion, tachycardia and hypertension				- treatment is largely supportive although haemoperfusion and urinary alkalinisation can be used
 - cardiac arrhythmias, cerebral haemorrhage, coagulopathy, cerebral oedema & rhabdomyolysis 			/	
management - it is important to reduce the psychomotor agitation, using diazepam IV as required	cocaine			clinical features:
 - close monitoring and aggressive resuscitation are essential 				 overdose of benzodiazepines is common; however, features are usually not severe unless complicated by other drugs
- beta blockers can result in excessive alpha activity				or comorbities
 severe hypertension may required labetatol or SNP a CT scan may be necessary to exclude cerebral haemorrhage 	/		benzodiazer	
			1	 - flumazenil is a specific antagonist; however, its brief duration of action limit its use to diagnostic purposes moreover it may induce seizures particularly in patients who have taken other drugs such as TCAs orwho are benzodiazepine dependent. Its
General:			1	use is not recommended
 Cyanide inhalation is a potentially life-threatening occurrence that requires immediate intervention. 				
 Once inhaled, cyanide rapidly crosses into the blood and disrupts normal cellular utilization 				common effects include:
of oxygen by binding to cytochrome oxidase, thus interfering with cellular respiration.				(i) bradycardia & hypotension
Diagnosis: - Diagnosis is made by careful review of the history of inhalation and duration of				(ii) peripheral vasospasm (iii) bronchospasm & respiratory depression
exposure as well as by clinical symptoms.			bota	(iv) convulsions & coma
 Physical manifestations of cyanide poisoning include headache and confusion, followed by coma, aciiverse fund nextle head heading headache result being head heading de la traditione followed to service for the service head heading and activities for the service heading and activities and activities and activities and activities a			beta blockers	management
seizures, fixed pupils, bradycardia, hypotension, arrhythmias, heart block, and cardiac failure. - Diagnostic tests include measurement of blood concentrations of cyanide, which are			DIOCKETS	- supportive management is recommended
considered toxic at levels of 0.5 mg/L.	ovenido			 atropine, adrenaline or glucagon infusions may be necessary transvenous pacing may also be required
Treatment:	cyanide			- glucagon is only necessary if symptoms are unresponsive to adrenaline
 Treatment of cyanide inhalation includes administration of oxygen as well as decontamination agents. 				- glucagon is given as a bolus of 50mcg/kg IV up to 10mg; a maintainence dose of 2-10mg/hr can be used
 When cyanide toxicity is suggested, 100% oxygen should be administered immediately 				
 Amyl and sodium nitrates can be used as decontamination agents. These compounds 				clinical features:
induce the formation of methemoglobin to which cyanide has a high affinity. Methemoglobin thus acts as a scavenger for cyanide.		specific	butyropheno	- drowsiness and extrapyramidal effects are most common ONESrarely hypotension, QT prolongation, arrhythmias and convulsions develop
 Other compounds include sodium thiosulfate, which transfers a sulfur group to 	01	verdoses	(including	(treatment:
cyanide and converts it to thiocyanate, which is excreted by the kidneys, and			haloperidol)	- extrapyramidal symptoms can be treated with benztropine
hydroxycobalamin which detoxifies cyanide by binding to it, forming cyanocobalamin - dicobalt edetate 300mg iv followed by 50ml 50% dextrose is given in patients with severe features/				- if ventricular arrhythmias do occur, they are best treated with cardioversion; class la antiarrhythmics are theoretically detrimental
				Loomina
features:			c	inical features:
- nausea, vomiting, drowsiness & mental confusion				cardiac effects predominate in overdose with hypotension and AV block (although reflex tachycardia occurs with nifedipine)
 ECG: almost any change is possible including sinus bradycardia, AV block, ventricular and atrial ectopics & asysto 	le			hypotension occurs due to peripheral vasodilation and negative inotropy
management - treatment is mainly supportive				severe toxicity may occur in patients who initially appear well when sustained release preparations have been ingested
 temporary cardiac pacing and treatment of specific individual arrhythmias may be necessary 				treatment is supportive although iv calcium chloride is given to patients who remain hypotensive despite fluids
- serum digoxin levels may not give a good idea of the severity of toxicity	digoxin			atropine and occasionally cardiac pacing may be necessary
- indications for digoxin fabs: 1. acute ingestion of >10mg				
2. K>5.5mmol/l				features:
3. cardiovascular instability				CNS features: (i) range from mild ataxia to profound coma
 - a recommended regimen is 160mg as a loading dose followed by 160mg as an IV infusion over 7 hours. Alternatively 6-8mg/kg repeated over 30-60 minutes can be given. 	y,			(ii) marked depression of brainstem reflexes
- digoxin antibody fragments interfere with digoxin measurements that employ immunoassay techniques				(iii) convulsions or myoclonic activity
				(iv) cerebellar dysfunction CVS features:
features:				(i) tachy and bradyarrhythmias
- iron salt poisoning is most severe in young children				(ii) ECG shows prolonged PR, QRS & QT interval
 stage 1 (acute gastric disturbances) including epigastric pain, nausea, vomiting, haematemesis which may lead to necrosis and perforation of the stomach. Accompanied by rapid pulse & respiratory rate. 				(iii) conduction disturbances (iv) severe hypotension
- stage 2: (acute encephalopathy) including headache, confusion, delirium, convulsions & coma. Respirations				(v) pulmonary oedema
are deep and rapid. Cardiovascular collapse may supervene. Hyperglycaemia and leucocytosis are features - stage 3 (acute liver failure) may develop if the patient survives to this stage and leads to death				haematological features: (i) thrombocytopenia
 Stage 5 (acute inter lating) may develop in the patient survives to this stage and leads to death NB: severe poisoning is reflected by plasma concentrations >90micromoles/L in children and 145micromoles in adults within 4 hours of i 	ingestion .		carbamazepin	
management (must be rapid)	iron			anticholinergic effects
- plain AXR will demonstrate the number of tablets & gastric lavage with a large bore tube may facilitate removal of tablets (lava	age with			management
2gm ofdesferrioxamine in 1L of warm water and then leave 10gm in 50ml in the stomach to chelate remaining iron in the GIT - whole bowel irrigation with polyethylene glycol solution especially in children may be helpful desferrioxamine can be given by				 the drug has extensive protein binding capacity (75-85%) and a large volume of distribution (1.5L/kg), making it relatively inaccessible to active drug elimination
the IV and IM routes. The dosage is the same for both routes & the same for adults and children: a 1gm loading dose & then				- absorption is slow and uppedictable and maximum serum concentrations may not be reached until 72 hours after
500mg 4hrly for two doses and thereafter 500mg between 4 and 12 hourly depending on the severity of the poisoning (total	1			ingestion; carbamazepine undergoes enterohepatic recirculation and is metabolised to an active metabolite
dose should not exceed 6gm in 24 hours) - continue treatment until serum levels and clinical status improve	/			 management is mainly supportive: (i) intubation and ventilation may be required
				(ii) fluid resuscitation & inotropes may be necessary
				(iii) cardiac pacing may be required
				 (iv) seizures must be controlled with aggressive measures (v) drug removal can be facilitated by multiple dose activated charcoal & charcoal haemoperfusion have been used