

ACEM Primary Examination Vivas > Pharmacology > Toxicology Organised by edvivas.com	
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Activated Charcoal 2009-2

Question 5: Activated Charcoal	(a) In a poisoned patient what modalities are available for decontamination?	Skin – remove clothes, wash contaminated skin GIT – emesis, gastric lavage, activated charcoal & cathartics / whole-bowel irrigation	3 of 5 to pass
	(b) How does activated charcoal work?	Adsorption due to its large surface area	
	(c) Name some drugs or agents that activated charcoal is NOT effective in adsorbing?	Ions: Fe, Li, K Alcohols, cyanide Corrosives (acids and alkalis)	2 examples
	(d) Name a drug where repeated doses of activated charcoal may assist in elimination of the drug	Carbamazepine, dapsone, theophylline	One drug

Naloxone 2013-1

<p>Question 5 NALOXONE LOA: 2</p>	<p>What is the mechanism of action of Naloxone?</p> <p>What is the time to onset and duration of action when administered intravenously?</p> <p>What problems may be associated with naloxone administration?</p> <p>How can these problems be minimised or avoided?</p>	<p>Pure opioid antagonist binds to μ-opioid binding sites.</p> <p>Rapid onset 1-3 minutes Duration 1-2 hours</p> <p>Opioid withdrawal Resedation</p> <p>Smaller/titrated doses Infusion Route of administration</p>	<p>Bold to pass</p> <p>Bold to pass</p> <p>Bold to pass</p> <p>Bold to pass</p>
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Flumazenil 2010-2

5. a. What is the mechanism of action of flumazenil?	Antagonist at the BZD binding site on the GABA _A receptor (ligand-gated chloride channel). Decreases the binding of GABA. Blocks GABA-induced increase in Cl ⁻ permeability and influx of Cl ⁻ into the cell causing hyperpolarisation and decreased excitability of the neuron.	Specific BZD receptor antagonist at GABA receptor
b. What are the indications for flumazenil use	Avoid intubation or ICU admission in BZD overdose. Reverse BZD sedation after procedures Diagnostic role	Reverse the sedative effects of BZD
c. What potential problems should be anticipated when using flumazenil?	Precipitate seizures in mixed overdoses with BZD and proconvulsants Precipitate seizures in pts taking BZD to control epilepsy Precipitate withdrawal symptoms and seizures in BDZ-dependent Duration of action is only 1-3hrs thus repeated administration may be necessary Reversal of BZD-induced respiratory depression has not been demonstrated, so resp and cardiovasc support may be required Adverse Effects: headache, visual disturbance, increased anxiety, nausea, light-headedness	Precipitate fits Need for repeated doses

Antivenom 2011-2

<p>Question 5</p> <p>Antivenoms</p>	<p>a) What is an antivenom?</p> <p>b) What antivenoms are used in Australasia?</p> <p>c) What are the side effects of antivenom?</p> <p>d) What animals are used in the production of different antivenoms?</p>	<p>a) Immunoglobulin or antibody (specifically IgG FAB) produced by another animal in response to a venom. Used in humans IV or IM to neutralise venom after an envenomation.</p> <p>b) Snake –polyvalent and monovalent (black, brown, death adder, tiger, taipan, sea snake); stonefish, redback spider, box jellyfish, funnelweb spider</p> <p>c) Allergy, anaphylaxis, serum sickness</p> <p>d) Horse –snake, stonefish, redback; Sheep –box jellyfish; Rabbit –funnel web</p>	<p>Must get Ab or Ig produced by animal</p> <p>Must get Snake – polyvalent & monovalent & 2 others</p> <p>Must get bold</p> <p>Must get horse/snake and 1 other</p>
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