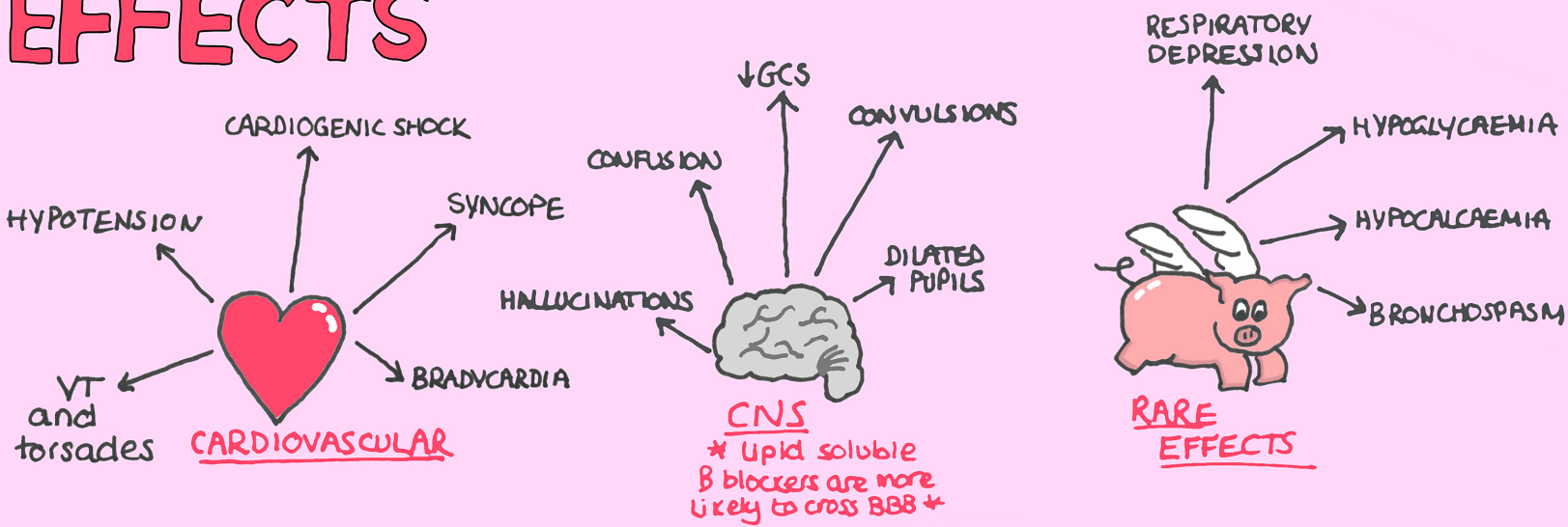


β-BLOCKER O.D.

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EFFECTS



INVESTIGATIONS



ECG

- ↑QRS
 - propranolol
 - due to Na⁺ channel blockade
- ↑QT
 - sotalol
 - due to K⁺ channel blockade



BLOODS

- blood gas
- U+E_s
- FBC
- Ca²⁺
- blood glucose
- CK (if pt is unconscious)



OBSERVATION

- 6 hrs
- 12 hrs if sustained release preparation

APPROACH

- maintain AIRWAY and BREATHING in unconscious patients
 - ↳ consider early intubation
- If CARDIAC ARREST occurs, resuscitation should be PROLONGED
- consider ACTIVATED CHARCOAL if patient presents within 1 HOUR of ingestion
- In SYMPTOMATIC patients or those with ECG CHANGES consider early discussion with ITU.

MANAGEMENT



HYPOTENSION

FLUIDS

- patients with fluid resistant hypotension can deteriorate quickly

GLUCAGON

- bolus dose = 5-10 mg IV over 1-2 mins
- Infusion = 50-150 mcg/kg/hr

HIGH DOSE INSULIN/DEXTRROSE

- Improves myocardial contractility
- monitor for ↓glucose + ↓K⁺
- consult toxbase for dosing

LIPID EMULSION

- In RESISTANT cardiotoxicity
- 1.5 ml/kg 20% Intralipid bolus
 - ↳ can be repeated 1-2 times
- Infusion = 0.25-0.5 ml/kg/min over 30-60 mins
 - ↳ max = 500 ml

BRADYCARDIA



- ATROPINE = 0.5-1.2 mg
- consider dobutamine or isoprenaline
- temporary pacing may be required.



BRONCHOSPASM

- bronchodilators
- steroids



CONVULSIONS

- single, short seizures do not require treatment
- If PROLONGED or FREQUENT give LORAZEPAM 4mg IV
- 2nd line = BARBITURATES
 - ↳ AVOID phenytoin as it can worsen cardiotoxic features



METABOLIC ACIDOSIS

- consider IV SODIUM BICARBONATE if acidosis persists after fluid resuscitation and correction of hypoxia
- correct rapidly if QRS prolonged
- dose = 50 mmol

concentration	volume (ml)
1.26%	333
1.4%	300
* 4.2%	100
* 8.4%	50

* 4.2% + 8.4% via central access

#EM3