Chronic digoxin use may lead to accumulation and toxicity. Digoxin immune Fab is not always required for management.

Toxicity / Risk Assessment	Management: Treat the underlying cause and withhold digoxin, negative inotropic/chronotropic agents
Chronic digoxin accumulation and subsequent toxicity is	and drugs that impair renal function or inhibit digoxin elimination (NSAIDS, diuretics, ACE inhibitors).
often precipitated by other pathological processes	Correct fluid and electrolyte abnormalities (hypokalaemia, hypomagnesaemia)
e.g. volume depletion, infection, renal failure	Digoxin immune Fab (1 vial = 40 mg)
(îdigoxin concentration does not always equate to	<i>Indications</i> : (1-2 vials in 100 mL of N/Saline and infuse over 15-30 minutes)
clinical findings and is a poor predictor of toxicity)	- Life-threatening cardiac arrhythmias (VT/VF)
Patients at risk of digoxin toxicity:	- Bradyarrhythmias + hypotension
- Elderly with multiple co-morbidities	- Cardiac arrest: 2 vials q5-10 minutely as IV push AND discuss with clinical toxicologist
- Patients with poor cardiac and renal function	- May be indicated with digoxin concentration >2.0 nmol/L (>1.6 ng/mL) AND 1 or more of the following
- Patients who are on drugs impairing renal function or	(discuss with Clinical Toxicologist): - renal impairment, increased automaticity, resistant hyperkalaemia
K⁺ homeostasis	Serum digoxin concentration is not interpretable after administration of digoxin immune Fab
<u>Clinical features:</u>	<u>Hyperkalaemia</u>
- Can be non-specific: lethargy, confusion, dizziness	- Treat along conventional lines (this includes giving calcium if indicated)
- GI: nausea, vomiting, abdominal pain, diarrhoea	<u>Arrhythmias (</u> if digoxin immune Fab is not immediately available)
- CVS: increased automaticity (ventricular ectopics,	- Bradyarrhythmias + hypotension - Atropine: 0.6 mg IV boluses q5 minutely up to 3 doses (child 0.02 mg/kg
bigeminy, ventricular tachyarrhythmias),	boluses). Persisting bradyarrhythmias unresponsive to atropine: treated with an adrenaline infusion.
bradyarrhythmias (slow AF, AV block), hypotension,	- Ventricular tachyarrhythmias - MgSO4 10 mmol (2 g) IV or lignocaine 100 mg IV slow push.
isolated reverse tick ECG ≠toxicity	<u>Disposition</u>
- Visual changes: ↓acuity, yellow halos	- Admit for treatment of precipitating cause
Concentration conversion (nmol/L x 0.78 = ng/mL)	- Patients with ongoing arrhythmias should be admitted to critical care or monitored environment
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