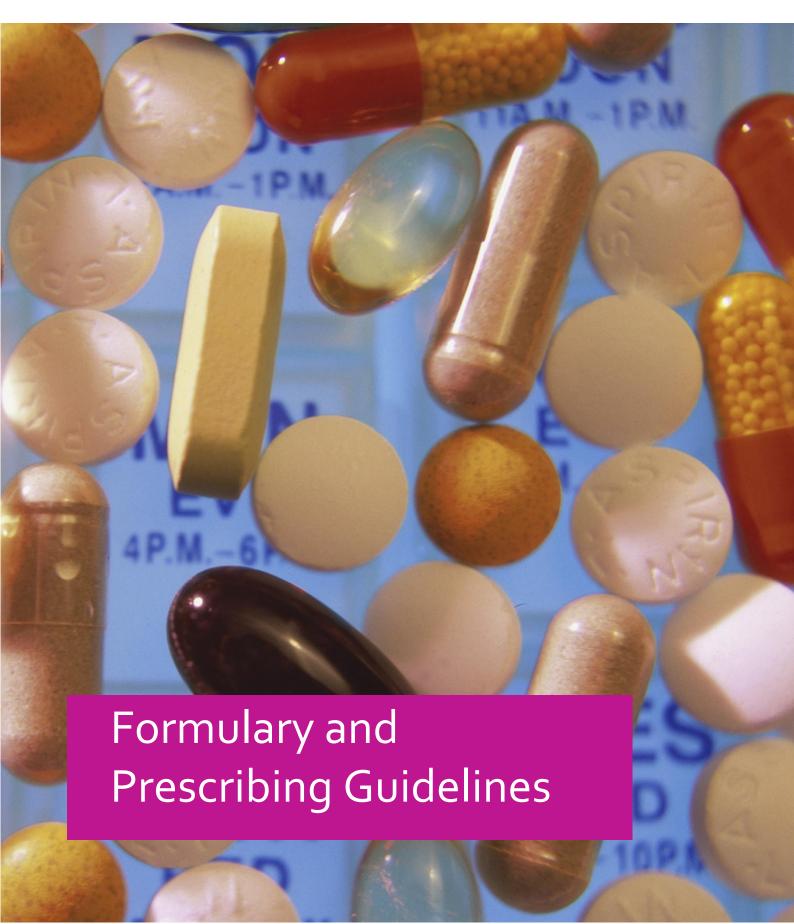


# **SECTION 24: ELECTROCONVULSIVE THERAPY**



#### 24.1 Introduction

Electroconvulsive therapy (ECT) is an effective treatment for patients with a range of psychiatric conditions and is endorsed in a number of national guidelines. To safely administer ECT however patients require treatment with a general anaesthetic which is a treatment that is different from other areas of psychiatry and therefore carries different risks. This guideline aims to set out the approved list of medicines that will be available within the ECT suites to enable ECT to be safely administered.

This guideline must be read in conjunction with the Trust's clinical guideline, CLPG26 Electroconvulsive therapy (ECT) procedural guidelines and the Trust's guidelines on cardiopulmonary resuscitation CLPG14

The medication recommended for use within ECT is in line with the requirements of the Electroconvulsive therapy accreditation service (ECTAS)

## 24.2 Medicines approved for use within Electroconvulsive Therapy Departments

See latest BNF for licensed indications.

Drug	Formulation	Comment		
Emergency Medicines				
Anaphylactic shock pack				
Aspirin	Dispersible tablets, 300mg			
Flumazenil	Injection 500microgram/5ml			
Glucose	Juice 60ml Tablets 4g Oral gel, 40% 25g			
Glyceryl Trinitrate	Sublingual spray 400 micrograms			
Naloxone	Injection 400 micrograms			
Salbutamol	Inhaler 100 microgram Nebules 5mg/2.5ml			
Adrenaline	Injection 1 in 1,000, 1 in 10,000			
Midazolam	Buccal 10mg			
Glucagon	Injection 1mg			
	Anaesthetics			
Propofol	Injection 200mg/20ml			
Thiopental	Injection 500mg			
Sevoflurane	Inhalation Vapour 250ml			
	Muscle Relaxants			
Suxamethonium	Injection 100mg/2ml			
Rocuronium	Injection 050mg/5ml			
Medicines to trea	at unwanted autonomic, cardiovascular, respira	atory or neurological effects.		
Atropine	Injection 600 microgram,/1ml, 1mg/5ml Pre-filled syringe			

Drug	Formulation	Comment		
Dantrolene	Injection 20mg			
Glycopyrronium	Injection 600 micrograms/ 3ml			
Midazolam	Injection 10mg/2ml			
Miscellaneous				
Lubricating Jelly	Gel			
Multistix-8	Test strips			
Aquagel	Gel			
EMLA	Cream			
Ethyl Chloride	Fine Spray			
Sodium Citrate	Oral Solution 88.23 mg per 1 ml			
Infusions				
Glucose	Infusion 5%, 500ml infusion 20%, 50ml			
Sodium Bicarbonate	Infusion 8.4%, 100ml			
Sodium Chloride	Infusion 0.9% 500ml, 1000ml			
Sodium Lactate compound (Hartmann's)	Infusion 500ml			
Volplex Plasma substitute	Infusion 500ml			
	Diluents			
Sodium Chloride	0.9 % Injection 10ml			
Water for Injections	Injection 20ml, 100ml			
	Injections			
Adenosine	Injection 6mg/2ml			
Aminophylline	Injection 250mg/10ml			
Amiodarone	Injection 300mg/10ml pre-filled syringe			
Calcium Chloride	Injection 10%, 10ml pre-filled syringe			
Chlorphenamine	Injection 10mg/1ml			
Cyclizine	Injection 50mg/1ml			
Digoxin	Injection 500 micrograms/2ml			
Ephedrine	Injection 30mg/1ml, 30mg/1ml pre-filled syringe			
Esmolol	Injection 100mg/10ml			
Hydrocortisone	Injection 100mg			
Labetalol	Injection 100mg/20ml			
Lidocaine	Injection 1% (2ml)			
Magnesium Sulfate	Injection 50% 1g/2ml			
Metaraminol	Injection 10mg/1ml, 2.5mg/5ml pre-filled syringe			
Metoclopramide	Injection 10mg/2ml			
Metoprolol	Injection 5mg/5ml			
Neostigmine / Glycopyrronium	Injection 2,5mg / 500 microgram /ml			

Drug	Formulation	Comment		
Ondansetron	Injection 4mg/2ml			
Suggamadex	Injection 200mg/2ml			
Doxapram	Injection 100mg/ 5ml			
Refrigerated products				
Lorazepam	Injection 4mg/1ml			
Rapid acting insulin	Solution for injection 100 units/ml (Trurapi)			
Tetracaine	Gel 4%			
Controlled Drugs				
Alfentanil	Injection 1mg/2ml			

## 24.3 MEDICATION USE AND ECT

The Trust's clinical guideline, CLPG26 Electroconvulsive therapy (ECT) procedural guidelines, provides information on the use of medicines during ECT.

Further information on the use of medication during ECT including potential interactions with ECT can also be found in the Maudsley and Prescribing Guidelines and the Psychotropic Drug Directory.

### 24.4 USE OF FLUMAZENIL FOR BENZODIAZEPINE REVERSAL

Flumazenil is a specific reversal agent for benzodiazepine-induced respiratory depression. It is held at all sites where injectable benzodiazepines are stocked. See section 8 for further information.

#### 24.5 REFERENCES

- 1 Royal College of Psychiatrists, Electroconvulsive Therapy Accreditation Service (ECTAS) https://www.rcpsych.ac.uk/improving-care/ccqi/quality-networks-accreditation/ectas
- 2 Taylor D, Barnes T, Young A. The Maudsley Prescribing Guidelines in Psychiatry, 14<sup>th</sup> Edition, 2021
- Bazire S, Greenhalgh N, Psychotropic Drug Directory, Pharmaceutical Press, 2024. Accessed online via www.medicinescomplete.com