

## **Document control sheet**

GUIDELINE NUMBER	
AREA IN WHICH THIS MONOGRAPH APPLIES	Paediatrics

DIVISIONAL AUTHORISATION			
GROUP	DATE		
Paediatric monograph review group	13.04.2022		
Clinical Director – Paediatric BU			
Divisional Clinical Governance Committee – Integrated care			

AUTHORS			
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#### If review:

	Position	Date
Reviewed by:		
Name		
Updated and transferred to		
new template by:		

## Change history:

Changes Reference	Change details	Date
	Amendments made since approval on 13.04.2022 re wording for where can be used. Approved by pharmacy and E. Starkey 01.08.22	01.08.22



# **Paediatric: Levetiracetam (Loading dose)**

# - CED/PCCU only

Presentation:	Levetiracetam 500mg in 5ml vials					
Indication:	Status epilepticus – prolonged seizure  2 <sup>nd</sup> line agent  Levetiracetam should ONLY be prescribed and administered on the instruction of a consultant or COMET, as it is not included in local or national paediatric emergency treatment of seizure protocols.					
Dose:	Child >1 month: Loading dose only: 40mg/kg (maximum 3000mg) given over 15 minutes*					
Route of administration:	*Can be given over 5 Intravenous infusion					
Instructions for preparation and administration:	<ul> <li>Draw up the required dose of the 100mg/ml solution</li> <li>Dilute the required dose to a final concentration of 50mg in 1mL with sodium chloride 0.9% or glucose 5%.</li> <li>Administer over 15 minutes using an infusion pump.</li> </ul> NOTE: Use immediately after preparation.					
	Prescribe on EPMA or on Yellow emergency treatment card.  e.g. Example for a 14kg child  1. 14 x 40mg = 560mg  2. 560mg divided by 50mg/ml = 11.2ml					
	Drug	Drug amount in syringe Diluent		Total volume (ml)		Route
	Levetiracetam	560mg	sodium chlorid	e 0.9%	11.2ml	IV
Known	Do not infuse Leveti	racetam with any	other medicines			
compatibility issues		,				
SMART pump directions	<ul> <li>Load Syringe, prime line using the pump for accurate dosing.</li> <li>Open 'Children' folder then open "Emergency Drug (Children)"</li> <li>Using DATA chevrons enter the calculated rate in ml/h and confirm</li> <li>Visually confirm the rate (ml/h)</li> <li>Perform STOP moment with medical team (Pump against prescription)</li> <li>Connect to Child</li> <li>Press start button</li> </ul>					
Additional Comments:	<ul> <li>Line to be flushed with Sodium chloride 0.9%.</li> <li>Do not use if any particulate matter or discolouration is present.</li> <li>ALL maintenance doses to be made by pharmacy. Contact ward pharmacist for supply.</li> </ul>					

## Derbyshire Children's Hospital Pharmacy Drug Monograph

Note: The contents of this monograph should be read in conjunction with



#### information available in the BNFC and Medusa

#### References:

Medusa <u>Injectable Medicines Guide - Display - Levetiracetam - Intravenous - Version 6 (wales.nhs.uk)</u> (Accessed December 2021) Summary of product characteristics (SmPC): Keppra 100 mg/ml concentrate for solution for infusion

Keppra 100 mg/ml concentrate for solution for infusion - Summary of Product Characteristics (SmPC) - (emc) (medicines.org.uk) (Accessed December 2021)

Resuscitation Council UK, Paediatric Immediate Life Support (4th edition), May 2021, Appendix D p124. ISBN: 978-1-903812-38-9

Refractory Status Epilepticus guideline; Nottingham University Hospitals Guidelines App; accessed January 2022

Critical care pharmacopeia; Nottingham University Hospitals Guideline App; accessed January 2022 CEWT guidelines, available online: <a href="http://www.cewt.org.uk/CEWT/Epilepsy-to-go-files-accessed 31.01.2022">http://www.cewt.org.uk/CEWT/Epilepsy-to-go-files-accessed 31.01.2022</a>

Paediatric formulary, accessed via CMS app on 31.01.22