

## St John WA

### Structured Administration and Supply Agreement – Levetiracetam Injection

SASA Details	
Title:	Levetiracetam IV administration for St John WA Paramedics
Identifier:	Levetiracetam Amp V1.0

Issuing Authority	
Hospital Name:	St John WA
Address:	209 Great Eastern Highway BELMONT, WA, 6104
Contact:	(08) 9334 1222

Authorised Persons	
Practitioners:	St John WA Paramedics
Location:	All Pre-Hospital regions of Western Australia (WA)
Qualification:	AHPRA Registered Paramedic who has completed the required training to be credentialed by St John WA to practice in the position of Critical Care Paramedic or Critical Care Paramedic Intern (CCP).


Authorised Medicine			
Medicine Name:	Levetiracetam	Brand:	Any stocked brand
Form:	Ampoule	Strength:	500mg/5ml (100mg/ml)
Dose:	As per St John Ambulance WA medication Guideline: Levetiracetam	Quantity:	Per required clinical need
Route:	IV/IO injection or IV infusion		
Instructions:	<u>Status Epilepticus (20 minutes post midazolam administration)</u>  IV/IO Injection <ul style="list-style-type: none"><li>Adult: 60mg/kg (0.6mL/kg) as a single dose, Maximum 4500mg (45mL) over 5 minutes</li><li>Paediatric: 40mg/kg (0.4mL/kg) as a single dose, Maximum 3000mg (30mL) over 5-10minutes</li></ul> <u>TBI Seizure Prophylaxis</u>		

	IV/IO Infusion <ul style="list-style-type: none"> <li>Adult: 1000mg (50mL), infuse over 15 minutes</li> <li>Paediatric: 20mg/kg rounded to the nearest 250mg, Maximum dose 1000mg. Infuse over 15mins</li> </ul>
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Approved Circumstances	
Authorised to:	Administer IV or via IV infusion in accordance with St John WA Medication Guideline: Levetiracetam
Place:	WA Pre-hospital environment
Patients:	St John WA Ambulance patients
Medical Condition(s):	1. Status epilepticus continuing over 20 minutes following Midazolam administration 2. Prophylaxis of post-traumatic seizures in moderate to severe head injuries (GCS <13)

Clinical / Other Information	
Patient Inclusion	St John WA patients
Patient Exclusion:	1. Hypersensitivity to Levetiracetam 2. Patient < 1 year of age
Special Instructions:	Toxicological-related seizures – require Ambulance Service Medical Adviser consult
Administration Notes:	Dilute 1000mg (10mL) with 40mL of sodium chloride 0.9% to make a final concentration of 20mg/mL (1000mg/50mL) for infusion
Clinical Guidelines	See; St John WA Medication Guideline: Levetiracetam St John WA Clinical Practice Guideline: Seizures St John WA Clinical Practice Guideline: Traumatic Brain Injury

Approval		
Date of Issue:		
Date of Expiry:		
Clinical Governance Committee		
Committee:	St John WA Medical Advisory Committee (MAC)	
Chair Name:	Dr Gayle Christie	
Date:		
Medical Director		

Name:	Dr Gayle Christie		
Date:	25/08/2025	Signature:	
<b>Chief Executive Officer</b>			
Name:	Mr Kevin Brown		
Date:	25/8/25	Signature:	