Medicine Guideline

Olanzapine Pamoate Long-Acting Injection (LAI)



	SESLHD Mental Health Services
Areas where	SESLID Mental Health Services
Protocol/Guideline applicable	Olanzapine Pamoate LAI may only be administered in an area where a Code Blue 2222 response is available.
Authorised Prescribers:	Consultant Psychiatrist in consultation with the site Clinical Director
Important Safety Considerations	A rare serious adverse event related to the use of Olanzapine Pamoate LAI is post-injection syndrome (PIS) which is reported to occur in 0.07% of injections. Unrecognised PIS has been linked to the unexpected deaths of a small number of consumers.
	Measures must be in place before the medication is administered to ensure that staff with specific knowledge about post injection syndrome are available and able to monitor the consumer for a minimum of two hours post injection . The observation period is to be determined by the site Clinical Director – it must be no less than two hours.
Indication for use	Maintenance treatment of schizophrenia
Proposed Place in Therapy	 Demonstrated tolerability and response to oral Olanzapine Evidence that a LAI is the preferred treatment option Evidence of failed response, or intolerable side effects, to other antipsychotic agents
Consumer selection	Criteria includes: A willingness to comply with post injection monitoring requirements A management plan for the administration and observation of the consumer post injection A plan for the monitoring of the consumer's metabolic profile.
Adjunctive Therapy	Oral supplementation is not required at the start of treatment; however, an open label long-term clinical trial permitted doses of up to 20mg per day of oral Olanzapine, when clinically necessary. Peak plasma levels are reached within the first week after injection.
Contra-indications	Patients with a known hypersensitivity to Olanzapine Pamoate LAI or its ingredients.
Precautions	 Standard precautions must be implemented, including sharps handling and disposal of waste Physical environment must be free from hazards Latex allergy risk must be assessed and recommended precautions
	utilised to prevent exposure to latex or known or suspected latex allergy in consumers and staff • Ergonomic and manual handling principles must be implemented.

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Dosage	Table 1. Recommended dose scheme between oral Olanzapine and Olanzapine Pamoate		
	Target oral Olanzapine dose	Recommended starting dose of Olanzapine Pamoate	Maintenance dose after 2 months of Olanzapine Pamoate treatment
	10 mg/day	210 mg / 2 weeks <i>or</i> 405 mg / 4 weeks	150 mg / 2 weeks <i>or</i> 300 mg / 4 weeks
	15 mg/day	300 mg / 2 weeks	210 mg / 2 weeks <i>or</i> 405 mg / 4 weeks
	20 mg/day	300 mg / 2 weeks	300 mg / 2 weeks
	impaired patients: Olan consumers. A lower start considered.	ts (65 years and over), he zapine has not been systeting dose (150mg every for	matically studied in these ur weeks) should be
Prescribing Instructions	Prior to the initiation of Olanzapine Pamoate, the Consultant Psychiatrist must obtain initial approval from the site Clinical Director.		
		al health service to adminising must be considered pri	
	•	I must be prescribed on the s, the appropriate paper m	
Pre-administration checks	Safe and accurate medic right drug, right dose, rig	cation administration in the ht route, right time.	5 Rights : right consumer,
		must be available to admi	ect injection technique and inister the injection and
	administration and monit continuous monitoring ar	the local facility must be identify the local facility must be identified of Olanzapine Pamoral immediate emergency nate, if signs of PIS are identified.	ate LAI, to ensure nedical assistance from a
	administration of Olanza	as been obtained and doc pine Pamoate (see <u>Append</u> and valid legal framework).	dix B). Where this is not
		of the potential side effects m two-hour monitoring per	• •

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Equipment	Olanzapine Pamoate (Zyprexa Relprevv®) injection pack				
	Gloves				
	,	ite dressing.			
		Pamoate injection paci		a by the nospital	
		nent in all inpatient se		7 5 0	
Olanzapine Pamoate	One 3 mL viai of sterile diluent (for specific use with Olanzapine)				
injection pack					
		Pamoate only)One 3 mL syringe with pre-attached 38 mm safety needle			
				needle	
	•	 One 19 gauge, 38 mm safety needle Two 19 gauge, 50 mm safety needles (for obese consumers) 			
		terature including pro			
		n, and reconstitution a			
		d by the manufacturer			
		nzapine Pamoate, as			
		is only to be adminis			
Administration		al Health Nurse who			
Instructions					
	administration of, and post injection monitoring requirements specific to, Olanzapine Pamoate LAI and checked by a second nurse. The second				
	person may be a Registered Nurse or Enrolled Nurse without notation. The				
	check should include the drug, dose, calculation and fluid, consumer's identity				
	and countersigning the administration on the medication chart or in eMEDS.				
	The Olanzapine Pamoate powder must only by reconstituted with the sterile				
	diluent supplied in the injection package.				
	There is more dilu	ent in the vial than is	required.		
	Table 2. Amount of diluent required for reconstitution and injection.				
	Dose	Olanzapine	Volume of	Final volume to	
		Pamoate Vial	diluent to add	Inject	
	450 ====	Strength	4.0 ml	1	
	150 mg 210 mg	210 mg 210 mg	1.3 mL 1.3 mL	1 mL 1.4 mL	
	300 mg	300 mg	1.8 mL	2 mL	
	405 mg	405 mg	2.3 mL	2.7 mL	
		1	<u>, </u>		

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Reconstituting Olanzapine Pamoate

- i. Loosen the powder by lightly tapping the vial
- ii. Open packaging containing the syringe with pre-attached safety needle
- iii. Withdraw the pre-determined volume of sterile diluent into the syringe (refer to <u>Table 2</u>). A second nurse (registered or enrolled without notation) should perform a double check on the diluent volume
- iv. Inject the diluent into the powder vial
- v. Withdraw air to equalise the pressure in the vial
- vi. Remove the needle, holding the vial upright to prevent any loss of solution
- vii. Engage the needle safety device
- viii. Tap the vial firmly and repeatedly on a hard surface until no powder is visible (protect the surface to cushion the impact and prevent breakage)
- ix. Visually check the vial for clumps. Unsuspended powder appears as light yellow, dry clumps clinging to the vial. Additional tapping may be required if clumps remain
- x. Shake the vial vigorously until the suspension appears smooth and is consistent in colour and texture. The suspended product will be yellow and opaque.

Note: If foam forms, let vial stand to allow foam to dissipate. If the product is not used immediately, it should be shaken vigorously to re-suspend. Do not refrigerate or freeze. The reconstituted product may be stored for up to six hours at room temperature.

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Injecting Olanzapine Pamoate

- i. Determine which needle will be used to administer the injection. For obese consumers, the 50mm needle is recommended
 - If the 50mm needle is to be used for the injection, attach the 38mm needle to the syringe to withdraw the required suspension volume
 - If the 38mm needle is to be used for the injection, attach the 50mm needle to the syringe to withdraw the required suspension volume.
- ii. Determine the amount that needs to be withdrawn from the vial for injection (from <u>Table 2</u>) and slowly withdraw the desired amount.
 Some excess product will remain in the vial
- iii. A second nurse (registered or enrolled without notation) must check the volume withdrawn for the injection
- iv. Engage the needle safety device and remove needle from syringe
- v. Attach a new safety needle to the syringe prior to injection. Once the suspension has been removed from the vial, it should be injected immediately.
- vi. Check the consumer's known allergies against the medication chart / EMR and with the consumer. If an allergy to the medication being administered is identified, do not administer the medication and contact the consumer's medical officer.
- vii. Perform hand hygiene and don gloves before touching consumer.
- viii. Select and prepare a site for injection in the gluteal area.

NOTE: FOR DEEP INTRAMUSCULAR GLUTEAL INJECTION ONLY. DO NOT ADMINISTER INTRAVENOUSLY OR SUBCUTANEOUSLY.

ix. After insertion of the needle into the muscle, aspirate for **several seconds** to ensure no blood appears.

NOTE: IF ANY BLOOD IS DRAWN INTO THE SYRINGE, DISCARD THE SYRINGE AND THE DOSE, AND CONSULT A MEDICAL OFFICER. A NEW INJECTION PACK MUST BE USED TO ADMINISTER AFTER A FAILED FIRST ATTEMPT.

- x. The injection should be performed with steady, continuous pressure. **Do not massage the injection site**
- xi. Engage the needle safety device
- xii. Discard the vials, syringe, needles and any unused diluent into a sharps bin following injection. The vial is for single use only.

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Adverse effects

Post Injection Syndrome (PIS) also referred to as Post Injection Delirium/Sedation Syndrome (PDSS) can result from inadvertent intravascular injection of Olanzapine or where there is contact with blood (e.g., if a haematoma occurs around the track of the injection), causing a range of Olanzapine overdose-type symptoms.

PIS is not dose, frequency, or time point specific, and the risk of occurrence exists following every administration. Higher doses, and therefore a larger final volume for injection, and low body mass index (BMI) may present a higher risk for PIS; however, PIS has occurred in consumers who do not have these risk factors.

In 91% of cases of PIS the initial signs and symptoms occur within the first hour, 96% of cases within 2 hours and 98% of cases within 3 hours. The remaining 2% of cases were identified beyond 3 hours. Full recovery usually occurs within 24-72 hours.

The signs and symptoms of PIS include:

- Sedation (ranging from mild sedation to deep sleep and unconsciousness), and/or
- Delirium (including confusion/confused state, disorientation, anxiety and agitation)
- Other symptoms include dizziness, weakness, altered speech/dysarthria, altered gait, muscle spasms, possible seizures and hypertension.

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Monitoring requirements

A plan for the monitoring of the consumer's metabolic profile is required.

The consumer must be observed for sedation, confusion, agitation and other symptoms of PIS for a minimum of two hours duration as determined by the site Clinical Director after administration:

- The trained Registered Nurse should maintain continuous observation of the consumer for a period of 15 minutes immediately following the injection. The consumer should remain in sight of staff for the remainder of the observation period for signs and symptoms of PIS
- The consumer should be assessed for alertness at 5 minutes, 10 minutes, 15 minutes and 30 minutes post injection, then at least every 30 minutes thereafter through direct verbal interaction with observations documented in eMR on the GCS Assessment within the General Neurological Assessment
- Assess the consumer's level of sedation or agitation, and ask "How are you feeling?" "Do you feel sedated?", "Open your eyes, take my hand". Ensure the consumer is able to follow basic commands. Document observations and consumer's response in eMR on the GCS Assessment within the General Neurological Assessment.
- Visual monitoring is insufficient. An assessment must ascertain that
 the consumer is not sedated, confused or anxious. Further questions to
 ascertain orientation need only be asked if signs and symptoms of PIS
 are observed
- Staff should remain alert for any signs of PIS, and ensure appropriate clinical handover to oncoming staff. If the consumer's condition deteriorates a clinical review or Code Blue 2222 response must be activated in accordance with <u>SESLHDPR/697 -Management of the</u> <u>Deteriorating ADULT inpatient (excluding maternity)</u>
- At the end of the monitoring period, the allocated nurse must notify the
 prescribing medical officer or delegate medical officer for assessment
 prior to discharge to ensure no signs and symptom of PIS are displayed
- The observation period should be extended as clinically appropriate for consumers who exhibit any potential signs or symptoms of PIS
- Immediately prior to leaving the facility, the staff member must confirm that the consumer is alert, orientated, and absent of any signs and symptoms of overdose.
- The staff member conducting post-injection monitoring must note in the consumer's medical records that the injection has been given and that the pre and post-injection physical and neurological observation monitoring has been carried out as per this procedure outlined in Appendix A.
- A Medical Officer must review the consumer to ensure no signs and symptoms of PIS are displayed, at the conclusion of the observation period and prior to authorisation for discharge. Note: if an inpatient, this review must occur and be documented prior to the consumer being granted leave

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	 • the consumer and carer or responsible person, must be instructed to remain vigilant for the onset of symptoms of PIS for the rest of the day, and have a documented plan for how to contact appropriate services should symptoms present • Consumers should be escorted home by a carer/responsible person • the consumer must be provided with a consumer medicine information leaflet (CMI) after every administration of Olanzapine Pamoate LAI • Consumers must be reminded that they are not permitted to drive or operate machinery for the rest of the day after the injection. Consumer insists on leaving prior to the observation period being completed: • Refer to SELSHDGL/082 Clinical Risk Assessment and Management – Mental Health and PD2025 012 Patient Admission and Discharge to NSW Health Facilities – Section 4 Discharge • Notify prescribing medical officer or their delegate medical officer • All practices should align with the NSW Mental Health Act (2007). 		
Management of Complications	A clinical review or Code Blue 2222 response must be activated in accordance with SESLHDPR/697 -Management of the Deteriorating ADULT inpatient (excluding maternity) Patients with Post Injection Syndrome (PIS) should be treated symptomatically.		
Documentation and reporting	 An IMs+ report must be completed following any Post-injection Syndrome event as per SESLHDPR/748 Incident Processes for Harm Score (HS) 2, 3 and 4 Incidents required to be reported to the MHS General Manager Any adverse drug reaction must be reported on IMs+, to the SESLHD MHS National Standard 4 Committee and the SESLHD Drugs and Therapeutics Committee, and to the Therapeutic Goods Administration (TGA) via the blue card adverse reaction reporting form. An entry must be made in the consumer's medical record indicating that the injection has been given and the pre and post-injection monitoring has been carried out as per this Procedure. A robust plan must be documented in eMR for the allocated duration of PIS monitoring with appropriate/adequate resources. A plan detailing the process to gain emergency medical attention in the event of an adverse reaction must also be documented in eMR 		

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Protocol/Guideline: 3. NSW Mental Health Act (2007) 4. NSW Health Safety Notice 016/21: Identification and Monitoring of Post-Injection Syndrome Olanzapine Pamoate Long Acting Injection (updated) 5. Olanzapine depot injection (Cyprexa Relprevy) for schizophrenia 6. Post-injection delirium/sedation syndrome in patients with schizophrenia treated with olanzapine long-acting injection, I:analysis of cases 7. Macquarie Hospital Olanzapine Pamoate Protocol: PR2010_312 8. PD2022_032 Medication Handling 9. PD2025_012 Patient Admission and Discharge to NSW Health Facilities 10. SESLHDPR/697 - Management of the Deteriorating ADULT inpatient (excluding maternity) 11. SESLHDPR/748 Incident Processes for Harm Score (HS) 2, 3 and 4 Incidents required to be reported to the MHS General Manager 13. Meyers KJ, et al. Postinjection delirium/sedation syndrome in patients with schizophrenia receiving olanzapine long-acting injection: results from a large observational study. BJPsych Open. 2017; 3:186-92 14. SESLHDPR/607 Olanzapine Pamoate Long-Acting Injection (LAI): Administration and Management (replaced by Medicine Guideline) MH National Standard 4 Committee (MHNS4C)	Basis of	1. Eli Lily: Olanzapine Pamoate Long-Acting Injection (LAI) product information
4. NSW Health Safety Notice 016/21: Identification and Monitoring of Post-Injection Syndrome Olanzapine Pamoate Long Acting Injection (updated) 5. Olanzapine depot injection (Zyprexa Relprevy) for schizophrenia treated with olanzapine long-acting injection, I:analysis of cases 7. Macquarie Hospital Olanzapine Pamoate Protocol: PR2010_312 8. PD2022_032 Medication Handling 9. PD2025_012 Patient Admission and Discharge to NSW Health Facilities 10. SESLHDPR/697 - Management of the Deteriorating ADULT inpatient (excluding maternity) 11. SESLHDGL/082 - Clinical Risk Assessment and Management - Mental Health 12. SESLHDPR/48 Incident Processes for Harm Score (HS) 2, 3 and 4 Incidents required to be reported to the MHS General Manager 13. Meyers KJ, et al. Postinjection delirium/sedation syndrome in patients with schizophrenia receiving olanzapine long-acting injection: results from a large observational study. BJPsych Open. 2017; 3:186-92 14. SESLHDPR/607 Olanzapine Pamoate Long-Acting Injection (LAI): Administration and Management (replaced by Medicine Guideline) Groups consulted in development of this MH National Standard 4 Committee (MHNS4C)		Eli Lilly: Zyprexxa Relprevv® Observation Checklist NSW Mantal Health Act (2007)
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	GOVERNANCE		
Enactment date	June 2024		
Reviewed (Version 1.1)	September 2025		
Reviewed (Version 2)			
Reviewed (Version 3)			
Expiry date:	June 2026		
Ratification date by	5 September 2025		
SESLHD DTC			
Committee			
Chairperson, DTC	Stuart Binns, A/Chair DTC		
Committee			
Version Number	1.1		

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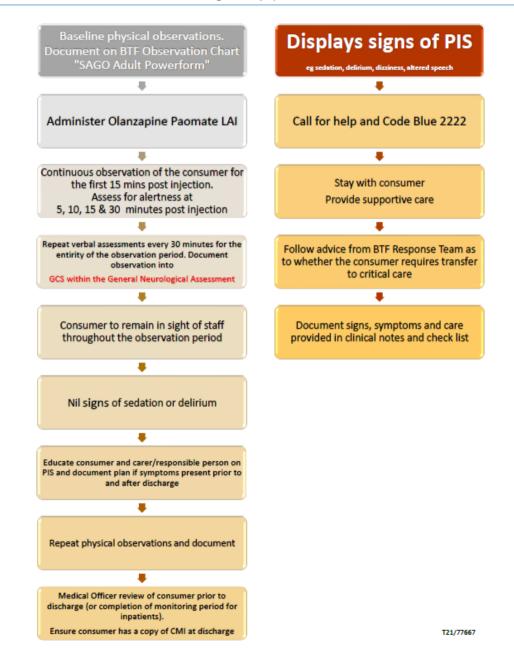
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APPENDIX A: Olanzapine Long acting injection (zyprexa relprevv): Administration Monitoring and safety flow chart

OLANZAPINE LONG ACTING INJECTION (ZYPREXA RELPREVV): ADMINISTRATION, MONITORING AND SAFETY FLOW CHART

Trained health staff must maintain continuous observation of the consumer for 15 minutes immediately post injection. The consumer should remain in sight of staff for the remainder of the three hour observation period for signs and symptoms of PIS



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Appendix B: Consumer Informed Consent



Informed Consent for Olanzapine Pamoate Long Acting Injection (LAI)

l,	
I,(consumer name)	
□ I have read and understood the Consumer medicine Information for Zyprexa Relprevv (Olanzapine Pamoate LAI) and the nature of Post Injection Syndrome (also known as Post Injection Delirium/Sedation Syndrome (PDSS)) that may occur with this drug.	
 All questions I have asked regarding the drug and post injection syndrome have been answer to my satisfaction. 	ered
□ I agree to stay for a minimum ofhours after the injection for observation purposes and I have organised an escort to accompany me home.	
Name and contact number of escort:	
□ I agree to refrain from driving and operating heavy machinery for the rest of the day.	
□ I provide permission for the treating team to contact my family / carer if they have any conce	rns.
Name and contact number of family / carer	
Signature of the participant:	
Date:	
Signature of administering clinician:	
Name of administering clinician:	
Name of Monitoring Health Professional:	
Name of Attending Medical Officer:	

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