

SESLHD PROCEDURE COVER SHEET



Health
South Eastern Sydney
Local Health District

NAME OF DOCUMENT	HYDROmorphone in Adult Patients in SESLHD acute care facilities – management of
TYPE OF DOCUMENT	Procedure
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EXECUTIVE SPONSOR	Director, Clinical Governance and Medical Services
AUTHOR	SESLHD HYDROmorphone working party
POSITION RESPONSIBLE FOR THE DOCUMENT	Quality Use of Medicines, Lead Pharmacist SESLHD-DrugCommittee@health.nsw.gov.au
FUNCTIONAL GROUP(S)	Medicine Medicines and Therapeutics Related Policy Documents
KEY TERMS	HYDROmorphone
SUMMARY	The aim of this procedure is to ensure the safe prescribing, storage and administration of the different formulations and strengths of HYDROmorphone across all SESLHD acute care facilities.

COMPLIANCE WITH THIS DOCUMENT IS MANDATORY

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HYDROmorphine in Adult Patients in SESLHD acute care facilities – management of

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1. POLICY STATEMENT

HYDROmorphine is a potent opioid analgesic used to treat moderate to severe acute or chronic pain. **HYDROmorphine is 5 to 7 times more potent than morphine.** Due to its high potency, incorrect or inappropriate dosing carries a very high risk of adverse patient outcomes. Deaths due to errors in HYDROmorphine prescribing and administration have occurred internationally and in Australia, including within South Eastern Sydney Local Health District (SESLHD) facilities.

[NSW Health Policy Directive PD2024_006 – High-Risk Medicines Management](#) has been revised with updated information that is relevant to NSW Health clinicians. The HYDROmorphine standards within PD2020_045 have been updated and is available on the CEC High-Risk Medicines [HYDROmorphine](#) webpage.

2. BACKGROUND

Incidents involving HYDROmorphine occur for several reasons, including:

- Inadvertent administration of HYDROmorphine instead of morphine
- Dose calculation errors with injectable HYDROmorphine
- Lack of awareness of the differences between oral and parenteral dosing schedules
- Inappropriate dosing when converting to HYDROmorphine from other opioids
- Confusion between the various strengths and formulations of HYDROmorphine (see table below).

The following HYDROmorphine products are available in SESLHD:

Originator Brand name	Examples of alternative brands	Form	Strengths available in SESLHD facilities	Formulary Restriction
Dilaudid®	JUNO®, Medsurge®	Injection	2 mg/1 mL	On the advice of an authorised specialist as defined by SESLHDPR/669 Management of HYDROmorphine in Adult Inpatients in SESLHD Acute Care Facilities
Dilaudid – HP®	JUNO-HP®, Medsurge-HP®	Injection	10 mg/1 mL	
Dilaudid®		Immediate release Tablet	2 mg 4 mg 8 mg	
<i>Varies (19A product)</i>		Immediate release Oral Solution	1 mg/1 mL	Additional Restriction for HYDROmorphine oral solution: [R] doses less than 2mg or where HYDROmorphine IR tablets are unsuitable.

Note: All strengths of Jurnista® (HYDROmorphine hydrochloride) modified release tablets were discontinued on 30 April 2023. Currently there are no other brands of modified release HYDROmorphine tablets listed on the Australian Register of Therapeutic Goods (ARTG). Immediate release tablet and injectable formulations continue to be available.

HYDROmorphine hydrochloride 50 mg/mL injection is NOT stocked in SESLHD facilities. Various pre-filled syringes are available for pump refills by the pain team where high doses are required.

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Patient safety must be the core priority of all staff involved in the management of HYDROmorphone. The aim of this procedure is to ensure the safe prescribing, storage and administration of the different formulations and strengths of HYDROmorphone.

3. DEFINITIONS**Authorised specialist:**

A person authorised to recommend the initiation of HYDROmorphone, being either:

- a. A Senior Medical Officer in Palliative Care, Renal Medicine, Pain Medicine, Medical Oncology, Anaesthetics, Intensive Care Medicine, Emergency Medicine or Geriatric Medicine [or at Sutherland Hospital ONLY: Respiratory Medicine], or
- b. A Medical Registrar, Advanced Trainee or Nurse Practitioner working in the following specialties: Palliative Care, Kidney Supportive Care, Cancer Care, Anaesthetics or Pain Management.

Authorised prescriber:

A person authorised to write a HYDROmorphone order or prescription. This may be a Registrar, Career Medical Officer, Advanced Trainee or Senior Medical Officer from any discipline, or a nurse practitioner specialising in Palliative Care, Kidney Supportive Care, Cancer Care, Anaesthetics or Pain Management.

Opioid naïve:

Patients who are either not currently taking/receiving opioids OR those who are taking/receiving opioids in whom tolerance has not yet developed (e.g. recently commenced or infrequent use only).

Opioid tolerant:

Patients with a reduced response to, OR reduced sensitivity to the effects of, opioids due to consistent recent exposure to opioids.

Fixed Interval Variable Dose (FIVD):

Medication orders with a variable dosage range (for example, 5 to 10 mg) over a fixed interval for administration (for example every 6 hours).

4. RESPONSIBILITIES**4.1 All Medical Officers and authorised Nurse Practitioners will:**

- Understand and implement the principles of safe use of HYDROmorphone. This includes understanding and adhering to the prescribing requirements, dosing, contraindications, precautions and monitoring as set out in this procedure
- Consider patient specific factors such as age, renal function, hepatic function, other medications (including current and past opioid use) and comorbidities when prescribing HYDROmorphone
- Include patients and their carers in the decision to prescribe HYDROmorphone and provide written and verbal information on treatment as appropriate
- Review the patient regularly for efficacy of treatment and/or adverse effects
- Include an overview/update about HYDROmorphone treatment at transfers of care, for example Emergency Department (ED) to ward, ward to ICU
- Escalate any adverse events occurring to patients receiving HYDROmorphone.

4.2 Registered Nurses (RN) / Registered Midwives (RM) will:

- Include an overview/update about HYDROmorphone treatment during clinical handover (high risk medicine alert)
- Understand and implement the principles of safe use of HYDROmorphone as set out in this procedure, including confirming that the prescribing requirements have been met before administering HYDROmorphone ([see section 5.5](#))
- Ensure patients receiving HYDROmorphone are monitored for efficacy of treatments and/or adverse effects ([see section 5.6](#))
- Escalate any adverse events occurring to patients receiving HYDROmorphone ([see section 5.7](#))
- Monitor stocks of HYDROmorphone products on the ward and notify pharmacy for removal or destruction of unused products as required.

4.3 Enrolled Nurses (ENs) will:

- Include an overview/update about HYDROmorphone treatment during clinical handover (high risk medicine alert)
- Understand and implement the principles of safe use of HYDROmorphone as set out in this procedure
- ENs without a notation who have completed the board approved additional units of study for administration of medicines can provide a second person check and witness the administration of HYDROmorphone
- Ensure patients receiving HYDROmorphone are monitored for efficacy of treatment and adverse effects ([see section 5.6](#))
- Practice in accordance with [SESLHDPD/160 - Medication: Administration by Enrolled Nurses.](#)

4.4 Pharmacists will:

- Understand and implement the principles of safe use of HYDROmorphone as set out in this procedure
- Review newly commenced, amended existing or recharted HYDROmorphone orders where appropriate
- Provide advice on appropriate use of HYDROmorphone to the clinical team as required
- Assist with appropriate patient/carer education regarding HYDROmorphone
- Report any adverse events occurring to patients receiving HYDROmorphone

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- Perform regular reviews of ward Schedule 8 (S8) drug storage units to ensure that unused products are not stocked and promptly remove unwanted HYDROmorphone products upon request.

4.5 Nursing/Midwifery Unit Managers will:

- Ensure HYDROmorphone is stored in their ward/area in accordance with the requirements of this procedure ([section 5.8](#))
- Implement processes to ensure S8 drug storage units are checked on a weekly basis for HYDROmorphone products that are no longer required
- Support nursing/midwifery staff to escalate concerns with the safe management of HYDROmorphone as required.

4.6 SESLHD Facilities will:

- Implement and monitor completion of mandatory education for medical, nursing and pharmacy staff in relation to the use of HYDROmorphone
- Audit and review clinical practice in relation to HYDROmorphone in their facility
- Review in detail any adverse clinical outcome of HYDROmorphone
- Ensure safe use of HYDROmorphone, in accordance with [NSW Health Policy Directive PD2024_006 – High-Risk Medicines Management](#).

5. PROCEDURE

5.1 Contraindications to HYDROmorphone use

HYDROmorphone is contraindicated in the following clinical scenarios:

- Patients with known hypersensitivity to HYDROmorphone
- Respiratory depression with hypoxia or hypercapnia where resuscitative equipment is not immediately available
- Status asthmaticus
- Paralytic ileus (see precautions)
- Concurrent or recent use of a Monoamine Oxidase Inhibitor (MAOI) e.g. phenelzine, tranylcypromine (within 14 days)
- Pregnancy (category C).

5.2 Precautions

HYDROmorphone is 5 to 7 times more potent than morphine. This means that the dose prescribed should be at least 5 times less than an equivalent dose of morphine. There is an increased risk of adverse events if incorrect or inappropriate doses are used.

Use of HYDROmorphone in opioid-naïve patients is hazardous. There are rare occasions where HYDROmorphone would be considered the most appropriate analgesic for an opioid-naïve patient. The low doses required for safe initiation of therapy cannot be administered with the available oral formulations of HYDROmorphone. Initiation of oral therapy should occur only in opioid-tolerant patients.

HYDROmorphone must only be used in patients for whom other opioid medicines are ineffective, inappropriate or not tolerated. Prior to use of HYDROmorphone, rule out all other analgesic options (e.g. non-opioid analgesia, other opioids or other modes of analgesia) and optimise use of adjuvant analgesia (multi-modal analgesia).

Clinical response to HYDROmorphone may vary considerably from patient to patient. HYDROmorphone should be dosed cautiously and titrated gradually according to response.

HYDROmorphone (and other opioids) should be used with caution in the following circumstances:

- Renal or hepatic impairment and the elderly (see table below).
- Impaired respiratory function, for example: restrictive/obstructive airways disease (e.g. asthma, COPD), risk of airway obstruction (e.g. sleep apnoea), other conditions associated with hypoxia/ hypercapnia (see table below)
- Patients with ileus or bowel obstruction (note: use of HYDROmorphone in palliative patients with malignant bowel obstruction is accepted practice)
- Patients requiring biliary tract procedures as opioid may cause spasm of the sphincter of Oddi
- Recent head injury, raised intracranial pressure, decreased level of consciousness or coma
- Uncorrected endocrine abnormalities; hypothyroidism or adrenocortical insufficiency, acute alcoholism, myasthenia gravis, central nervous system (CNS) depression
- Epilepsy or a recognised risk for seizure, e.g. head injury, metabolic disorders, alcohol and drug withdrawal, CNS infections
- Hypotension or shock
- Pheochromocytoma
- Patients with previous history of hypersensitivity or adverse effects from other opioids.

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The following table shows factors known to increase sensitivity to the effects of HYDROmorphone. Note that the combination of multiple precautions, including those listed above (e.g. elderly patient with COPD and renal impairment), may significantly compound the associated risks.

Precautionary Factor	Issues and Risks
<i>Age > 65 years old</i>	Suitability of HYDROmorphone must be carefully considered. Very low (i.e. 25-50% of usual adult dose) initiation doses are recommended, with slow titration to effect.
<i>Renal Impairment</i>	Start with lower doses, titrate dose carefully and monitor closely for signs of respiratory depression. Accumulation of toxic metabolites may cause neurotoxicity, including features of encephalopathy and hallucinations. Consider alternatives such as fentanyl or oxycodone if available routes are appropriate.
<i>Hepatic Impairment</i>	Dose reductions are recommended for moderate hepatic impairment. HYDROmorphone use in patients with severe hepatic impairment has not been well-established and should be avoided.
<i>Impaired Respiratory Function</i>	Due to its potency there is an increased risk of respiratory depression with HYDROmorphone compared with other opioids. Use with caution, start with low doses and monitor closely.
<i>Complete or Relative Opioid-Naivety</i>	As a potent opioid with significant dose-response variability, use of HYDROmorphone in opioid-naïve patients carries a high degree of risk. There are few occasions where HYDROmorphone would be considered the most appropriate analgesic for an opioid-naïve patient. Mandatory maximum initiation doses for opioid naïve or relatively opioid naïve patients are provided in Section 5.4.2 .

In all of the above circumstances, **specific advice on dosing and monitoring** should be sought from the team or specialist who recommend use of HYDROmorphone ([see section 5.4.1](#)) and clearly documented before prescribing.

5.3 Drug Interactions

- Other CNS depressants, e.g. benzodiazepines, pregabalin, gabapentin: avoid if possible or use with caution ensuring each drug is at the lowest effective dose, and monitor closely.
- Monoamine Oxidase Inhibitors (MAOI) e.g. phenelzine, tranylcypromine: avoid with concurrent or recent use (within 14 days).

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5.4 Prescribing**5.4.1 Restrictions on prescribing of HYDROmorphone**

HYDROmorphone must only be used in patients for whom other opioid medicines are inappropriate or not tolerated. Consider alternative analgesic options such as other opioids or modes of analgesia prior to use of HYDROmorphone. Multi-modal analgesia may reduce opioid requirements.

Commencement of HYDROmorphone for a specific patient must only be on the advice of an [Authorised Specialist](#).

After-hours, the relevant on-call [Authorised Specialist](#) should be consulted for advice. **In the exceptional circumstance where expert advice cannot be obtained, one or more doses of an alternative opioid must be used until specialist review can occur.**

All new HYDROmorphone orders must be written by an [Authorised Prescriber](#).

Adjustments to existing orders may be made by a Junior Medical Officer (JMO) (below registrar level) on the recommendation of an [Authorised Prescriber](#).

Transcription of existing orders onto discharge prescriptions or new medication charts may be made by a Junior Medical Officer (JMO) (below registrar level). All prescribers MUST adhere to the Documentation Requirements ([see section 5.4.3](#)).

HYDROmorphone must not be prescribed simultaneously with any other opioid except in the following instances:

- i. When prescribed for PRN use for breakthrough pain with another opioid prescribed regularly
- ii. When short acting HYDROmorphone is prescribed with a transdermal patch as part of a titration process or during initiation phase whilst awaiting steady state of the transdermal preparation.
- iii. Where a patient is receiving opioids as part of an opioid treatment program. Advice from the Drug & Alcohol service should be sought to develop an analgesic plan that is appropriate and safe.

5.4.2 Dosing**5.4.2.1 Initiating HYDROmorphone**

In opioid naïve patients, those with risk factors for toxicity ([see section 5.2](#)) or those receiving other medications that can potentiate the effects of HYDROmorphone, dosing should be individualised, but appropriate suggested adult starting doses are as follows:

- **Subcutaneous route:** 0.25mg up to every 4 hours (to a maximum of 1.5mg in 24 hours)
- **Oral route:** Not suitable for initiation in opioid naïve patients or those with risk factors for toxicity:
 - **The smallest available immediate release tablet is 2mg (equivalent to approx. 10mg oral morphine). This is inappropriate and unsafe as an initiation dose.**
- **IV route** – For dosing in the post-operative Recovery Unit setting refer to [SESLHDPR/501 - Acute Pain Management in the Post Anaesthetic Care Unit: Intravenous Opioid Pain Protocol for Adults Fentanyl, HYDROmorphone, Morphine and Oxycodone](#).
- **Via PCA** – refer to local PCA guidelines

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Fixed Interval Variable Dose (FIVD) regimens must not be used for HYDROmorphone. Once a patient's response to the initial doses of HYDROmorphone has been assessed, the dose may be carefully titrated according to analgesic need in consultation with the relevant specialist.

5.4.2.2 Converting to HYDROmorphone from another opioid

Opioid conversion may be required when:

- a) Patient is allergic to a certain opioid.
- b) Patient has become intolerant to their current opioid.
- c) Patient's pain remains poorly controlled despite titration of the current opioid dose.
- d) Patient is unable to continue to take the opioid in its current form, e.g., no longer able to swallow oral medications requiring conversion to the parenteral route most commonly subcutaneous infusion via a Syringe Driver

Depending on the reason for opioid conversion, expert advice may be required. Consider consulting Palliative Care, Pain Medicine, Anaesthetics or Addiction Medicine.

Alternatively, use of the [Opioid Calculator Application by the Australian and New Zealand College of Anaesthetists \(ANZCA\) Faculty of Pain Medicine](#) is recommended to estimate the dose equivalency between the current opioid and HYDROmorphone. The ANZCA calculator is appropriate for use in both opioid-naïve and opioid-tolerant patients.

In Oncology and Palliative Care settings other opioid conversion tools may be used, for example the [eviQ opioid conversion calculator](#) or locally-approved opioid conversion guidelines.

When using an opioid conversion calculator it is important to note that incomplete cross-tolerance and inter-patient variability can be significant. **When converting from a different opioid to HYDROmorphone a dose reduction of 25% to 50% should be applied to the suggested ('converted') dose of HYDROmorphone**, and the dose titrated thereafter according to analgesic need.

The smallest available immediate release HYDROmorphone tablet is 2mg. Do not round calculation up to achieve a 2mg dose. An alternative opioid must be used if doses lower than 2mg are calculated.

5.4.2.3 Patients admitted on HYDROmorphone

The formulation, dose, route and frequency used by the patient must be confirmed with the patient and another reliable source (e.g. patient's GP, community pharmacist or medication list) prior to prescribing.

Where relevant, [SafeScript NSW](#) (real time prescription monitoring system) is to be utilised to access real-time information about patient's prescription history for high-risk medications (including opioid analgesics) to enable safer clinical decision-making.

Patients admitted via an Emergency Department (ED) should have treatment reviewed by an ED Specialist or the senior ED registrar/team leader at the earliest opportunity. Where concerns about the appropriateness of treatment are identified, the patient should be referred to a relevant speciality for consultation or review within an appropriate timeframe.

Patients admitted via other areas should be referred to an [Authorised Specialist](#) at the earliest opportunity for advice on appropriate management.

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All orders for HYDRORmorphone must include:

- i. Drug, including both generic and trade (brand) name
- ii. Dose, route and frequency
- iii. Maximum daily dose as **_x_mg/24 hours** for PRN orders
- iv. Indication

Handwritten orders must be legible and clear and include the full name of the prescriber.

Each individual order should be for one route only; there must never be more than one route on each individual HYDRORmorphone order.

Additional documentation requirements depend on the reason for writing the medication order and are detailed below (5.4.3.1 to 5.4.3.4).

5.4.3.1 Patients admitted on HYDRORmorphone

After confirmation with the patient and a second information source, the formulation, dose, route and frequency taken by the patient and details of information source must be documented in the medical record before prescribing.

5.4.3.2 Newly initiating HYDRORmorphone

When newly initiating HYDRORmorphone the following must be clearly documented in the medical record (in addition to prescribing on the medication chart for items i-v):

- i. Drug and formulation
- ii. Dose, route and frequency
- iii. Maximum daily dose as **_x_mg/24 hours** for PRN orders
- iv. Indication
- v. Name and designation of the [Authorised Specialist](#) who has recommended initiation of HYDRORmorphone (where this is different from the person documenting)
- vi. If switching from another opioid, the PREVIOUS drug, formulation, dose and route and the mathematical rationalisation of the dose conversion.

5.4.3.3 Adjusting a HYDRORmorphone order

When adjusting an order for HYDRORmorphone (e.g. increasing the dose, changing the route), the previous order should be discontinued and a new medication order must be prescribed.

The following must be clearly documented in the medical record (in addition to prescribing on the medication chart for items i-iv):

- i. Current formulation, dose, route, frequency and maximum dose for PRN orders
- ii. New formulation, dose, route and frequency and maximum dose for PRN orders
- iii. Indication
- iv. Name and designation of the [Authorised Prescriber](#) who has recommended the adjustment of HYDRORmorphone (where this is different from the person documenting)
- v. Reason for change (e.g., dose decreased due to persistent drowsiness).

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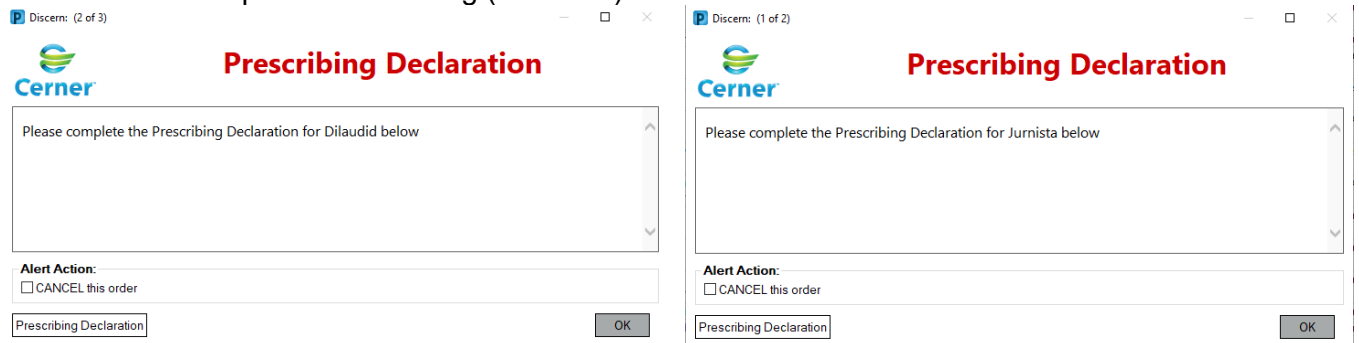
5.4.3.4 Re-charting a HYDROMORPHONE order

Care should be taken when re-charting an order for HYDROMORPHONE (at the same, dose, route and frequency), to ensure all details are transferred correctly to the new medication chart.

The following must be clearly documented in the medical record, in addition to prescribing on the medication chart:

- i. Current formulation, dose, route, frequency and maximum dose for PRN orders
- ii. Indication

To assist with documenting the above information, an eMR pop-up will direct clinicians to the HYDROMORPHONE Prescribing (SESLHD) Form.



Hydromorphone Prescribing Declaration - PYXIS, Blenny

*Performed on: 28/07/2023 10:02 AEST By: Cheung, Louis (DBA)

Hydromorphone Prescribing Declaration

Pyxis, Blenny MRN: 11966074 DOB: 01/01/1980 AGE: 43 Years MC: 99999999999
 1 Ocean Street BONDI NSW 2026 SEX: LOC: D3 CCU POW; -, 09

Reason for hydromorphone order

Reason for medication order

- patient admitted on hydromorphone - continuing usual dose ONLY
- adjusting a hydromorphone order
- newly initiating hydromorphone
- transcribing hydromorphone from NIMC/eRIC

If patient is admitted on hydromorphone

Information sources used to confirm hydromorphone dose (at least TWO e.g. patient, GP, community pharmacy, nursing home, etc)

Inpatient order details

Dose [] mg Route [] Frequency [] Max PRN dose/24 hrs [] mg

Indication [] Reason for change []

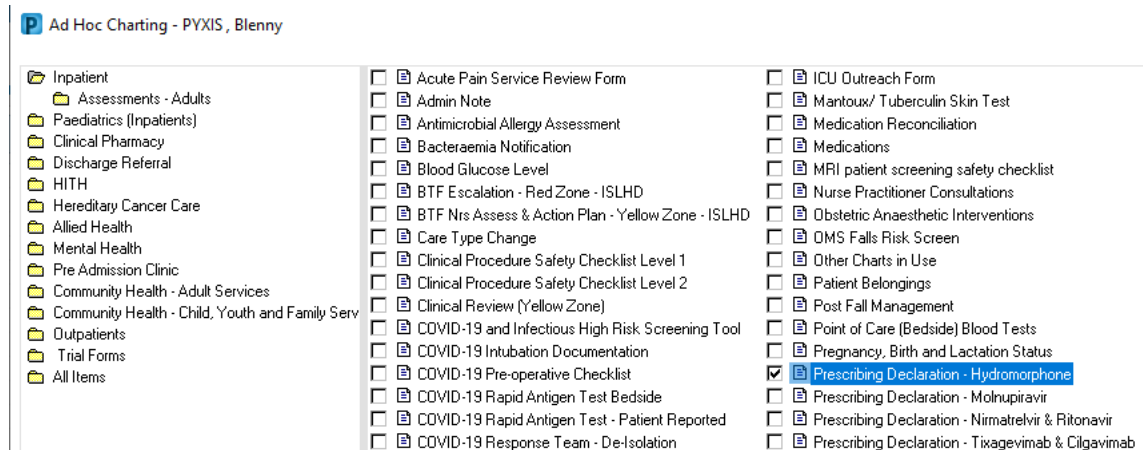
Name of specialist [] Designation of specialist []

Details of previous opioid and mathematical conversion []

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The HYDROmorphone Prescribing (SESLHD) Form can also be accessed via Ad Hoc:



5.4.4 Medication Review

A suitably trained health professional (ideally a pharmacist) should prioritise patients prescribed HYDROmorphone for clinical pharmaceutical review during business hours. Within each SESLHD facility, mechanisms should be in place to assist clinicians to identify these patients.

When clinically reviewing a HYDROmorphone order, the clinician is responsible for the following:

- Confirming that the prescribed HYDROmorphone order is safe and appropriate in the clinical context of the individual patient, by ensuring the appropriateness of the drug, formulation, dose, route and frequency in the context of the individual patient’s clinical parameters (e.g., the patient’s comorbidities and other medicines prescribed).
- Where changes to a previously charted HYDROmorphone regimen are involved, confirming that these changes are intentional, appropriate and justified
- Where dose calculations or conversions are involved, confirming both the accuracy of the calculations and the applicability of the references used to the clinical context of the individual patient.

The clinician should also ensure that all prescribing requirements ([under section 5.4](#)) have been met.

Once satisfied with the order, the clinician reviewing should either:

1. sign a [Pharmaceutical Review task in eMEDs](#), or
2. electronically verify the order, or
3. initial the pharmaceutical review section on a paper chart.

5.5 Administration

Perform a full set of vital sign observations immediately prior to any dose administration (excluding patients on an End of Life Care Plan (EOLCP)). Refer to [section 5.7](#) for management of results outside of normal ranges.

When administering doses of HYDROmorphone (including newly prescribed, adjusted or re-charted orders), the person administering together with the witness to administration must confirm all prescribing requirements ([under section 5.4](#)) have been met.

If these documentation requirements are not met, the dose should not be administered.

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Before each administration confirm that the order details are complete (including dose, route, frequency brand and maximum daily dose for PRN orders). Always check that the order appears appropriate for the individual patient, with reference to the patient’s medical record.

Any identified issues must be raised immediately with the prescriber. If a satisfactory resolution is not met, concerns should be escalated to the Nursing/ Midwifery Unit Manager or After Hours Nurse Manager.

A second person check, including witnessing of the administration, is mandatory as per [NSW Health Policy Directive PD2022_032 - Medication Handling](#). Both parties must individually and independently check and confirm the correct drug, dosage, route, frequency and formulation before each administration.

5.6 Monitoring

The frequency and type of monitoring will be determined by the individual circumstances. For example:

- in patients on long-term stable therapy routine observations may be sufficient;
- patients on an EOLCP may be excluded from monitoring;
- patients with risk factors for adverse effects ([see section 5.2](#)) or patients taking other medications which may potentiate the sedation and respiratory depressant effects of HYDROmorphone (e.g. benzodiazepines, antipsychotics etc.) may require increased monitoring.

The Attending Medical Officer and/or Specialist team should specify in the progress notes the specific monitoring requirements for the individual patient.

For all other patients, the following is a guide:

Mode of administration	Perform and Record	Frequency
Oral	Sedation score, respiratory rate, pain score	One hour after initial dose (or dose increase) then every four hours if dosing continues
Subcutaneous (intermittent dosing)	Sedation score, respiratory rate, pain score	30 minutes after initial dose (or dose increase) then every four hours if dosing continues
Continuous subcutaneous infusion (CSCI) (Palliative Care)*	Sedation score, respiratory rate, pain score and as per CSCI Monitoring Chart	30 minutes after initiation of the infusion (or dose increase) then every four hours
Post Anaesthetic Care Unit (Pain Protocol)	Sedation score, respiratory rate, BP, pain score	Every 3 to 5 mins while on pain protocol
Patient Controlled Analgesia (PCA)	Sedation score, respiratory rate, pain score	Every hour for six hours then every two hours for the duration of the PCA
<i>*patients on an EOLCP may be excluded from monitoring</i>		

The patient must also be observed for other side effects, e.g. light headedness, visual disturbances, tinnitus, constipation, pruritis, nausea, vomiting. Refer to medical team for review if necessary.

5.7 Management of Complications

Ensure naloxone is available wherever HYDRORmorphone is used.

For the deteriorating patient activate the Between the Flags (BTF) rapid response system as per [SESLHDPR/697 – Management of the Deteriorating ADULT inpatient \(excluding maternity\)](#) and [SESLHDPR/705 – Management of the Deteriorating MATERNITY woman](#) and local facility Clinical Emergency Response System (CERS) business rules.

In patients who have an EOLCP in place, complications should be managed in accordance with their individualised plan. CPR or CERS calls may not be appropriate. The Medical Emergency Treatment Limitation Section on the reverse side of the Resuscitation Plan form should be completed with specific instructions for the management of any opioid-related complications.

5.8 Storage of HYDRORmorphone

HYDRORmorphone products must be supplied to clinical areas from pharmacy in an orange bag with clear labelling to distinguish them from morphine products. They must remain in this bag throughout storage in the clinical area.

Where possible, an additional sticker using Tall Man Lettering stating 'HYDRORmorphone' should be applied to all inpatient HYDRORmorphone packets and bottles. The sticker must not obscure original packet or bottle labelling.

HYDRORmorphone must be stored separately from morphine products, for example in a separate safe or on a different shelf. Where possible, clear shelf labelling should be applied utilising tall-man lettering.

HYDRORmorphone products must only be stocked in clinical areas where they are in regular use. Where practicable, HYDRORmorphone should be supplied from pharmacy on an individual patient basis and the patient's medication chart clinically reviewed by a pharmacist prior to supply.

A list of areas permitted to stock HYDRORmorphone 10mg/mL injection must be kept at each site. Review of storage areas should be undertaken on a six-monthly basis. Where the 10mg/mL injection is required for a specific patient outside of these areas, clear labelling and education strategies must be in place to mitigate the risk of product selection error.

HYDRORmorphone products dispensed for a specific patient must not be used for another patient (exceptions may be made after hours at the discretion of the After Hours Nurse Manager and/or the on-call pharmacist.)

Where current or imminent need for a dispensed product cannot be demonstrated, the supply should be removed from the clinical area at the earliest opportunity. All medication safes should be checked at least once per week by the NUM/MUM (or their delegate) to identify any stock of HYDRORmorphone that is not in use and pharmacy notified promptly for its removal.

The 50mg/mL injection must not be stocked in SESLHD facilities. Where high doses are required, manufactured pre-filled syringes must be used.

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5.9 Staff Education

All nursing, pharmacy and medical staff should undertake the HETI eLearning module 'Safe Use of HYDROmorphone' which can be accessed via HETI My Health Learning (Course Code 199776392).

Please note: In contradiction to the information in the HETI module:

1. SESLHD endorses the use of HYDROmorphone in renal failure under the conditions of this procedure, based on references below.
 2. HYDROmorphone can be initiated in SESLHD by Nurse Practitioners specialising in Palliative Care, Kidney Supportive Care, Cancer Care and Pain Management.
- *Clinical Pharmacology Considerations in Pain Management in Patients with Advanced Kidney Failure. Clinical Journal of the American Society of Nephrology, 14(6), pp.917-931. (note page 926 opioids section)*
 - *Ashley, C. and Dunleavy, A., 2014. The Renal Drug Handbook. 4th ed. London: Radcliffe publishing, p.468.*

5.10 Patient Information

Patients and/or their carers should be provided with education and written information regarding HYDROmorphone appropriate to their level of understanding. The SESLHD  [oral HYDROmorphone discharge medication leaflet](#) is recommended for most patients. Consumer Medicines Information for the relevant product(s) should also be provided if considered appropriate.

Sydney Health Care Interpreter Services should be utilised for education of patients and/or carers who require cultural or linguistic assistance (Tel: 95150030). For patients who are deaf, Auslan interpreters should be used (Tel: 1300 287526).

The patient's family and/or carer should be advised to alert the patient's nurse or a medical officer if they have any concerns regarding the patient's clinical condition.

6. DOCUMENTATION

- Medication Chart: depending on the route of administration, HYDROmorphone is to be prescribed on an approved paper or electronic medication chart, NSW Health pain management chart or fluid chart.
- Medical Record
- Observation charts
- Relevant clinical pathways

7. AUDIT

- HYDROmorphone prescribing audits to be completed at least annually and results reported to the facility Safe Use of Medicines Committee and the SESLHD Drug and Therapeutics Committee
- Continual monitoring and review of IMS+ notifications

8. REFERENCES

1. [NSW Health Policy Directive PD2022_032 - Medication Handling](#)
2. [NSW Health Policy Directive PD2024_006 – High-Risk Medicines Management](#)
3. [SESLHDPR/697 – Management of the Deteriorating ADULT inpatient \(excluding maternity\)](#)
4. [SESLHDPR/705 – Management of the Deteriorating MATERNITY woman](#)
5. Therapeutic Guidelines Limited, Pain and Analgesia, Version 7. Published 2020.
6. Therapeutic Guidelines Limited, Palliative Care. Published 2024.
7. Therapeutic Guidelines Limited, Toxicology and Toxinology, Version 1. Published 2020.
8. Australian Medicines Handbook Pty Ltd – HYDROmorphone, last modified January 2025.

SESLHD PROCEDURE

HYDROmorphone in Adult Patients in SESLHD acute care facilities – management of

SESLHDPR/669

9. VERSION AND APPROVAL HISTORY

Date	Version	Author and approval notes
June 2020	0.1	Katie Hargreaves
3 July 2020	0.2	Feedback from Working Party incorporated
23 July 2020	0.3	Feedback from Working party and other specialists incorporated
3 August 2020	0.4	Feedback from Working party and other specialists incorporated
21 August 2020	0.5	Feedback from Working party and other specialists incorporated
4 December 2020	0.6	Feedback from district-wide consultation discussed with Working Party and incorporated where agreed.
January 2021	DRAFT	Final version approved by Executive Sponsor. Processed by Executive Services for tabling at Quality Use of Medicines Committee and Clinical and Quality Council for approval to publish.
February 2021	0.7	Approval deferred by QUM Committee due to notification of discontinuation of HYDROmorphone oral liquid. Changes made in discussion with working group to reflect discontinuation of product.
March 2021	0.7	Approved at Quality Use of Medicines Committee. To be tabled at Clinical and Quality Council for approval.
May 2021	0.7	Approved at Clinical and Quality Council.
April 2023	2	Reviewed by Quality Use of Medicines, Lead Pharmacist. Updated to reflect SESLHD Formulary restrictions and availability of Journista®. Checking requirements removed. HYDROmorphone Prescribing (SESLHD) Form in eMR referenced. Extensive consultation undertaken with key stakeholders.
August 2023	2.1	Approved by SESLHD Drug and Therapeutics Committee.
3 April 2024	2.2	Amendment to update Appendix 1 -Prescribing Restrictions to reflect content in section 5.4. Approved by SESLHD Drug and Therapeutics Committee and Executive Sponsor. Hyperlinks updated including updated NSW Health PD2024_006. Formatting updates by Policy team.
14 July 2025	2.3	Extensive review by key stakeholders. Amendments to reflect product availability, introduction of SafeScript and correction of grammatical errors. Approved at SESLHD Drug and Therapeutics Committee.

SESLHD PROCEDURE

HYDRORmorphine in Adult Patients in SESLHD acute care facilities – management of

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APPENDIX 1: HYDRORmorphine Prescribing Flowchart

Type of HYDRORmorphine Order			
Continuing	Newly initiated	Dose adjustment	Re-charting
The patient has been admitted to hospital taking HYDRORmorphine.	HYDRORmorphine is being commenced as a NEW medication for this patient	HYDRORmorphine is not new for this patient, but the regimen (dose, route or frequency) is being changed.	HYDRORmorphine is not new for this patient, but the order is being re-charted (e.g., transferred to/from NIMC, eRIC, eMEDs, paper chart, discharge prescription).
Prescribing Restrictions			
The prescriber MUST confirm the HYDRORmorphine formulation, dose, route and frequency taken by the patient with a reliable source, such as the patient's community pharmacist, general practitioner or medical specialist prior to prescribing. Where relevant, SafeScript NSW is to be utilised to access real-time information about patient's prescription history for HYDRORmorphine.	On the advice of an Authorised Specialist either: A Senior Medical Officer in Palliative Care, Renal Medicine, Pain Medicine, Medical Oncology, Anaesthetics, Intensive Care Medicine, Emergency Medicine or Geriatric Medicine [or at Sutherland Hospital ONLY: Respiratory Medicine],	On the advice of an Authorised Specialist:	Nil restrictions.
	OR A Medical Registrar, Advanced Trainee or Nurse Practitioner working in the following specialties: Palliative Care, Kidney Supportive Care, Cancer Care Anaesthetics or Pain Management.	OR Authorised Prescriber A Registrar, Career Medical Officer, Advanced Trainee or Senior Medical Officer from any discipline, or a nurse practitioner specialising in Palliative Care, Kidney Supportive Care, Cancer Care, Anaesthetics or Pain Management.	
HYDRORmorphine Documentation in the patient's medical record (use of eMR HYDRORmorphine Prescribing Form recommended)			
The information sources used to confirm HYDRORmorphine dose.	Drug and formulation	Current formulation, dose, route, frequency and maximum dose for PRN orders	Current formulation, dose, route, frequency and maximum dose for PRN orders
	Dose, route and frequency Maximum daily dose as mg/24 hours for PRN orders	New formulation, dose, route and frequency and maximum dose for PRN orders	
Indication	Indication	Indication	Indication
	Name and designation of the Authorised Specialist who has recommended initiation of HYDRORmorphine (where this is different from the person documenting)	Name and designation of the Authorised Specialist who has recommended the adjustment of HYDRORmorphine (where this is different from the person documenting)	
	If switching from another opioid, the PREVIOUS drug, formulation, dose and route and the mathematical rationalisation of the dose conversion.	Reason for change	
Prescriber			
Any Medical Officer or authorised Nurse Practitioner	All new HYDRORmorphine orders must be written by an Authorised Prescriber .	Any Medical Officer or authorised Nurse Practitioner	Any Medical Officer or authorised Nurse Practitioner
For further details refer to SESLHDPR669 – Management of HYDRORmorphine in Adult Inpatients in SESLHD Acute Care Facilities			