



MONOGRAPH

Oxycodone

Scope (Staff):	Medical, Pharmacy, Nursing
Scope (Area):	All Clinical Areas

Child Safe Organisation Statement of Commitment

CAHS commits to being a child safe organisation by applying the National Principles for Child Safe Organisations. This is a commitment to a strong culture supported by robust policies and procedures to reduce the likelihood of harm to children and young people.

This document should be read in conjunction with this [DISCLAIMER](#)

! HIGH RISK MEDICINE !

QUICKLINKS

Dosage/Dosage Adjustments	Administration	Compatibility	Monitoring
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DRUG CLASS

Opioid analgesic^[1]

Oxycodone is a [High Risk Medicine](#).

INDICATIONS AND RESTRICTIONS

- Acute and chronic pain^[1]

Oxycodone is restricted to children aged 6 months and above, unless used in the Paediatric Critical Care (PCC) unit or in consultation with the Acute Pain Service (APS) or an Oncologist (for oncology/haematology patients).

Refer to [Formulary One](#) for more information.

CONTRAINDICATIONS

- Hypersensitivity to oxycodone or any component of the formulation.^[2]
- Acute or severe asthma in an unmonitored setting^[2]
- Hypercarbia^[2]
- GI obstruction^[2]

PRECAUTIONS

- May cause respiratory and central nervous system (CNS) depression and sedation. Monitor closely initially^[1]
- Obstructive sleep apnoea – can potentiate respiratory depression effect. Titrate if needed and monitor closely^[2]
- Biliary tract disease (including pancreatitis) – may cause spasm of sphincter of Oddi. Use with caution^[1]
- Endocrine disorders (such as adrenal insufficiency and hypothyroidism) – dose titration required^[1]
- Opioid induced constipation may occur^[3]
 - Chart regular prophylactic oral aperients for all patients receiving regular opioids (unless contraindicated)^[3] and monitor bowel function.
 - Consider osmotic laxatives as first line treatment^[3]
 - If ineffective/unsuitable consider stool softeners and/or stimulant laxatives^[3]

FORMULATIONS

Listed below are products available at PCH, other formulations may be available, check with pharmacy if required:

Immediate release products:

- Liquid: 1 mg/mL
 - 5 mL pods are used in inpatient areas.
 - Prescribe 10 mL, 20 mL or 50 mL repacks for discharge scripts where possible.
- Tablets: 5 mg
- Capsules: 5 mg and 10 mg

Controlled release products:

- Tablets: 5 mg, 10 mg, 20 mg and 40 mg
- Targin® (oxycodone/naloxone): 2.5 mg/1.25 mg, 5 mg/2.5 mg, 10 mg/5 mg, 20 mg/10 mg and 40 mg/20 mg

Imprest location: [Formulary One](#)

DOSAGE & DOSAGE ADJUSTMENTS

Neonates: [Refer to Neonatal Medication Protocols](#)

Dosing in Overweight and Obese Children: Calculate dose based on Adjusted Body Weight

Renal impairment:

- [eGFR calculator](#)
- Oxycodone clearance may be reduced in renal impairment. Consider dose reduction.^[2, 4]

Hepatic impairment:

- Avoid or reduce dose in severe impairment.^[1, 2, 4]

The below doses are for opioid naïve patients.^[5] Oxycodone should be titrated according to the patient's clinical response.^[5]

Oral:

Immediate Release:

- Moderate to severe pain:
 - < 6 months: Contact the Acute Pain Service or a Consultant Oncologist for dosing advice.
 - 6 – 12 months: 0.05 – 0.1 mg/kg every 4 hours
 - > 1 year: 0.1 – 0.2 mg/kg every 4 hours^[5]
 - Initial dose range is 5 – 10 mg per dose^[4]
 - More frequent dosing than 4 hourly must be written under the direction of APS, Palliative Care or an Oncology Consultant only. A clear escalation plan is also required and must be documented on the medication chart.
- Severe pain post tonsillectomy for obstructive sleep apnoea:
 - 1 – 18 years: 0.05 – 0.1 mg/kg (maximum 5 mg) **every 6 hours** when required^[6]
 - An appropriate dose must be determined by a consultant anaesthetist based on a patient's individual clinical assessment.^[6]
 - Further oxycodone doses and discharge supply are contingent on the patient safely tolerating a "test dose" in hospital (see monitoring).^[6]
 - Discharge prescriptions are restricted to a supply of 10 – 15 doses (or close to) only, based on the available 10 mL, 20 mL and 50 mL liquid repacks required.
 - Tonsillotomy patients have a shorter pain course and 6 – 10 doses are recommended.^[6]

Controlled Release:

- Contact the Acute Pain Service, the Complex Pain Service or a Consultant Oncologist to facilitate the conversion from oral or parenteral opioids to controlled release products.

ADMINISTRATION

- Immediate release: Tablets can be crushed.^[1]
- Controlled release: Tablets must be swallowed whole with water – do not break, crush or chew.^[1]
 - OxyContin® tablets swell and become highly viscous when wet; they are not suitable for children who are unable to swallow tablets quickly with adequate water (risk of choking)^[5]
 - Oxycodone controlled release tablets reach a peak plasma level 4 – 5 hours post administration^[7]
 - Targin® tablets reach a peak plasma level 3 – 4 hours post administration.^[8]

MONITORING

- Sedation scores (UMSS – University of Michigan Sedation Scale)^[2]
- Respiratory rate and effort^[2]
- Oxygen saturation^[2]
- Heart rate^[2]
- Pain intensity scores^[2]

Record baseline vital signs pre-administration and hourly for two hours post first dose.

- Following the initial dose, patients should be regularly monitored and assessed for maintenance of pain control and development of adverse reactions.^[2]

Pre-discharge dose:

- Although all patients receiving oxycodone for discharge are encouraged to receive a test dose in hospital, exclusion may apply to certain children who are comfortable post-surgery where opioid pain relief is not required because of an ongoing effective regional analgesia (e.g. caudal or penile nerve block for circumcision or hypospadias repair).^[6] For these patients, it is at the discretion of the prescriber as to whether they can have their 1st dose of oxycodone at home.^[6] These patients should be generally healthy, without significant cardio-respiratory disease, serious co-morbidities or oxygen requirement.^[6]
- Emergency Department patients receiving oxycodone on discharge should receive a test dose 1 – 2 hours before discharging from ED unless approved by an ED consultant as per the [PCH Analgesia Emergency Department](#) guideline.

Post Tonsillectomy/ Adenotonsillectomy Patients:

Refer to Clinical Practice Manual: [Tonsillectomy and Adeno-tonsillectomy: Postoperative Management](#)

ADVERSE EFFECTS

Common: Nausea, vomiting, constipation, drowsiness, dizziness, headache, orthostatic hypotension, itch, dry mouth, miosis, urinary retention^[1]

Infrequent: Bronchospasm, confusion, hallucinations, delirium, agitation, mood changes, tremor, visual disturbances, urticaria, hypothermia, bradycardia or tachycardia, hypertension, biliary spasm, ileus, raised liver enzymes, muscle rigidity, flushing^[1]

Rare: Syndrome of inappropriate antidiuretic hormone secretion (SIADH), anaphylaxis, seizure^[1]

Management of Opioid Induced Itch/Pruritis or Reversal of an Opioid Overdose:

Refer to [Opioid Infusion Management in General Wards](#)

STORAGE

Oxycodone is a Schedule 8 medication and must be stored securely in automated dispensing machines (ADMs).

- Tablets, capsules, liquid: Store below 25°C. Protect from light and moisture.^[9]

INTERACTIONS

This medication may interact with other medications; consult PCH approved references (e.g. [Clinical Pharmacology](#)), a clinical pharmacist or PCH Medicines Information Service on extension 63546 for more information.

Please note: The information contained in this guideline is to assist with the preparation and administration of **Oxycodone**. Any variations to the doses recommended should be clarified with the prescriber prior to administration

Related CAHS internal policies, procedures and guidelines

[High Risk Medicines](#)

[Opioid Infusion Management in General Wards](#)




[Schedule 8 and Restricted Schedule 4 Medication](#)

[Tonsillectomy and Adeno-tonsillectomy: Postoperative Management](#)

References

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