

CEASED criteria -strategy for Intravenous PCIA **Guide for Medical staff**

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This quideline is to aid medical staff in the cessation of Patient Controlled Analgesia (PCIA). It provides a guide to the appropriate dosing of oral route opioid analgesics as well as commonly used non-opioid adjuvant analgesics.

<u>Is the patient complex? If not, proceed with CEASED.</u>

If the patient is considered a complex patient, then the Acute Pain Service will manage their analgesic requirements. Please do not alter the pain management strategy.

Complex patients include those with:

- Pre-admission "oMEDD" > 60 ("oMEDD": is oral morphine equivalent daily dosage) use the opioid calculator (refer POL0244 Opioid Prescribing Policy ANZCA App details)
- History of chronic pain.
- History of substance abuse.
- Concurrent use of ketamine infusion +/- sublingually.
- · Significant patient concern.
- Significant nursing or medical concern.
- Severe hepatic or renal impairment.

Check list **PRIOR** to PCIA cessation:

- Patient is tolerating oral intake.
- Plan has been communicated to nursing staff and the patient.
- Renal function checked prior to prescribing oral analgesics that may require dose adjustments.
- Patient's regular pre-admission medications are charted, available and have been confirmed.
- STAT dose of immediate release opioid 1 hour prior to removal of PCIA.
- PRN Opioids and Adjuncts (see below) charted and available.

Any issues or concerns to the analgesic management?

Please contact Acute Pain Service: Duty Anaesthetic Registrar (24/7) on M: *280.OR CNC Acute Pain (m-F 8-4.30PM) on Ext # 9483 Page 4829 or M: *206



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ANZSCA: PS41(G) Position statement on acute pain management 2022 4.3 Pharmacological therapies

4.3.3 Multimodal analgesia aims to reduce opioid-related adverse effects by reducing opioid requirements. Multimodal analgesia medication regimens should not increase the risk of adverse effects or interactions with other analgesic medications. Use of non-opioid analgesic and adjuvant medications and 'opioid-free analgesic techniques will not avoid the need for opioids in all patients, either in hospital or after discharge, and may not lead to a reduction in patient harm.
4.3.4 Long-acting opioid preparations include slow-release opioids, methadone and opioid patches. **Avoid routine prescription** of long-acting opioids in the management of acute pain unless there is a demonstrated need, close monitoring is available, and a cessation plan is in place.

Please consult Acute Pain Service: Anaesthetic Registrar for clarification on patient suitability if required.



Opioid Dose Equivalence Calculation Table

In order to calculate an oral Morphine Equivalent Daily Dose (oMEDD), multiply the current daily opioid dose by the conversion factor in column 3. For example, oMEDD of oxycodone 40mg/day = 40 x 1.5 = 60mg/day

co	NVERSION	FACTOR PROPRIETARY NAMES
OBAL /S	WALLOWE	NI BREBARATIONS
		Anamorph, Kapanol (MR), MS Contin
g. aa.,		(MR), MS Mono (MR), Ordine, Sevredol
malday	1.5	Endone, OxyContin (MR), OxyNorm,
mgraay	1.0	Targin (MR)
l mandalass		Dilaudid, Jurnista (MR)
		The state of the s
mg/day	0.13	Aspalgin, Codalgin, Panadeine, Panadeine Forte, Mersyndol, Nurofen Plus, others
mg/day	0.1	Di-Gesic, Doloxene
mg/day	0.2	Durotram-XR (MR), Tramal, Tramadol
,		SR (MR), Zydol, Zydol SR (MR), others
mg/day	0.3	Palexia-SR (MR), Palexia-IR
-	40	Suboxone, Subutex, Temgesic
	ECTAL PRE	PARATION
bsorption fro	m rectal ad	lministration is highly variable
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	1.5	Proladone
	SPERMAL	PREPARATIONS
	STATE OF THE PARTY	PREPARATIONS
mca/hr		And Advantage Control of Control
mcg/hr mcg/hr	3	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz
mcg/hr	2	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz
mcg/hr	3	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz
mog/hr	2 3 ENTERAL P	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz REPARATIONS DBL morphine sulphate injection, DBL
mcg/hr PARI mg/day	3 SNTERAL P	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz REPARATIONS DBL morphine sulphate injection, DBL morphine tartrate injection
mcg/hr PARI mg/day mg/day	3 STERAL P	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz REPARATIONS DBL morphine sulphate injection, DBL morphine tartrate injection OxyNorm FI
mcg/hr PARI mg/day mg/day mg/day	2 3 ENTERAL P 3 3	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz REPARATIONS DBL morphine sulphate injection, DBL morphine tartrate injection OxyNorm FI Dilaudid FI, Dilaudid-HP FI
mcg/hr PARI mg/day mg/day mg/day mg/day mg/day	2 3 3 3 15 0.25	Norspan Denpax, Durogesic, Dutran, Fenpatch, Fentanyl Sandoz REPARATIONS DBL morphine sulphate injection, DBL morphine tartrate injection OxyNorm FI Dilaudid FI, Dilaudid-HP FI Codeine phosphate injection USP
	mg/day	mg/day 1.5 mg/day 5 mg/day 0.13 mg/day 0.1 mg/day 0.2 mg/day 0.3 SUBLINGUAL PI mg/day 40 RECTAL PRE bsorption from rectal ac

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Opioid conversion tables (BHS: Opioid Prescribing Policy - POL0244)

Oral opioids to oral morphine			
Opioid		Conversion factor	Calculation
Oxycodone	(mg/day)	1.5	Oral oxycodone 10mg = Oral morphine 15mg
Hydromorphone	(mg/day)	5	Oral hydromorphone 8mg = Oral morphine 40mg
Codeine	(mg/day)	0.13	Oral codeine 30mg = Oral morphine 4mg
Tramadol	(mg/day)	0.2	Oral tramadol 50mg = Oral morphine 10mg
Tapentadol	(mg/day)	0.4	Oral tapentadol 50mg = Oral morphine 20mg

Opioid		Conversion factor	Calculation
Buprenorphine	(mg/day)	40	Sublingual buprenorphine 1mg = Oral morphine 40mg

Transdermal opioids to oral morphine			
Opioid		Conversion factor	Calculation
Buprenorphine	(microg/hr)	2	Transdermal buprenorphine 5microg/hr =
			Oral morphine 10mg/day
Fentanyl	(microg/hr)	3	Transdermal fentanyl 25microg/hr = Oral
			morphine 75mg/day

Parenteral opioids to oral morphine			
Opioid		Conversion factor	Calculation
Morphine	(mg/day)	3	Subcutaneous morphine 10mg = Oral morphine 30mg
Hydromorphone	(mg/day)	15	Subcutaneous hydromorphone 2mg = Oral morphine 30mg
Pethidine	(mg/day)	0.4	IV pethidine 20mg = Oral morphine 5mg
Fentanyl	(microg/day)	0.2	Subcutaneous fentanyl 25microg = Oral morphine 5mg

(Adapted from Opioid Dose Equivalence, Faculty of Pain Medicine, ANZCA, December 2014)



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<u>Dosage considerations:</u> Following Opioid Prescribing Policy - POL0244 and ANZCA opioid conversion recommendations below is an example of what the parental to oral conversion may look like

Conversion from Intravenous Opioid to Oral Opioids			
PCA use in last 24hrs		Suggested oral oxycodone dose	
Morphine/Oxycodone	< 10 mg		
Fentanyl	< 200 microg	5-10 mg Oxycodone QID every 2 hours PRN	
Morphine/Oxycodone Fentanyl	10-20 mg 200-400 microg	AND, Oxycodone 2.5-5 mg, every 2 hours PRN	
Morphine/Oxycodone	20-40 mg		
Fentanyl	400-800 microg	Targin 10/5 mg BD, for 3 days AND, Oxycodone 5-10 mg every 2 hours PRN	
Morphine/Oxycodone	40-60 mg		
Fentanyl	800-1200 microg	Targin 15/7.5 mg BD, wean over 1 week <i>AND</i> , Oxycodone 5-10 mg every 2hours, PRN	
Morphine/Oxycodone	60-80 mg	Targin 20/10 mg BD, wean over 1	
Fentanyl	1200-1600 microg	week AND, Oxycodone 5-10 mg every 2hours PRN	
Morphine/Oxycodone	>80 mg		
Fentanyl	>1600 microg	Do NOT Cease: Contact Pain Service	

Reduce the dosage if: elderly; frail; OSA; renal and hepatic impairment. Increase the dosage if: opioid tolerant. The analgesic requirement should reduce with each postoperative day but will be influenced by the patient's activity.

The weaning period for a long-acting agent depends on the surgery and may range from 3 days to more than 2 weeks. In general, a stop-date should be instituted for long-acting opioids. This information is conveyed to patient General Practitioner for ongoing care.

N.B: if the patient was taking a controlled release opioid pre-admission, it is likely that it will need to be continued post-operatively.

Australian Commission on Safety and Quality in Health Care, Opioid Analgesic Stewardship in Acute Pain Clinical Care Standard 2022 see summary below.



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Non-Opioid Adjuncts

- All patients should receive adjuvants.
- All patients except otherwise contraindicated should be ordered aperients.
- Usually these are used for 3 to 5 days.

Medication	Dose	Comment
Paracetamol	1 g QID	Consider dose reduction in severe hepatic impairment.
Ibuprofen	200-400 mg TDS with food prn	Caution in patients with renal impairment, age >75, concurrent ACE- Inhibitor use, Hx of haematemesis or gastritis
Pregabalin	75-150 mg BD	Rarely used in the acute setting as it takes 7 weeks for onset. (Only used if patient is already on this medication)
Tramadol immediate release	50-100 mg QID PRN	Do not use if age >75yrs and caution in patients on other serotonergic medications e.g.: SSRIs, TCAs
Tapentadol immediate release	50 – 100mg QID PRN	Alternate to Tramadol (APS will need to have prescribed, "Not for Discharge")
Temgesic sublingual Buprenorphine	200-400microg 6-8hrly (1200<24hr)	Required to be prescribed by APS Dr. in anticipation of slow return to bowel function with weaning plan "Until return bowel function, " not for discharge"

Other agents may be used in consultation with the Pain Services

Reference Online Australian Medicines Handbook Pty Ltd Last modified by AMH: July 2022

REFERENCES

- 1. Macintyre, P.E., & Schug, S.A.(2021). ACUTE PAIN MANAGEMENT A Practical Guide. W.B Saunders
- 2. Schug SA, Scott DA, Mott JF, Halliwell R, Palmer GM, Alcock M; APM:SE Working Group of the Australian and New Zealand College of Anaesthetists and Faculty of Pain Medicine (2020), Acute Pain Management: Scientific Evidence (5th edition), ANZCA & FPM, Melbourne.
- 3. Khor KE; Sia A,; Cardosa (2021) Opioid Therapy for pain: A practical Guide for clinicians, pg 408-417, SingHealth Academy Publishing
- 4. General resources used in the preparation of this monograph include On-line: *MIMS; Australian Medicines Handbook;* Royal Women's Pregnancy and Breastfeeding Medicines Guide.

CPP0069, V12 Acute Pain Service November 2022