



ADULT Medication Monograph

FENTANYL (Parenteral)

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

[Formulary: Unrestricted](#)

 **HIGH RISK Medication**

Class	Opioid Analgesic
Presentation	<p>Ampoules: 100 microg/2mL Ampoules: 500 microg/10mL Bags: Fentanyl 2000microg/100mL (20microg/mL) in Sodium Chloride 0.9% (Baxter®) (100mL) Bags: Fentanyl 2.5 microg/mL with Bupivacaine 0.0625% Infusion (KEMH®) Syringe: Fentanyl 20microg/2mL in Sodium Chloride 0.9% (Baxter®)</p>
Storage	<p>Store at room temperature, below 25°C Protect from light</p> <p style="text-align: center;">Schedule 8 Medication</p>
Dose	Refer to relevant KEMH Clinical Guidelines for appropriate dose regimes (links below)
Administration	<p><u>IV infusion</u> Preferred route. Use Baxter® 2000microg/100mL pre-filled bags where available Step 1 Dilution: Dilute 500 microg of Fentanyl with 90 mL of sodium chloride 0.9% or glucose 5% (Total volume should be 100mL) This makes 5microg/mL concentration Administration: Suitable as a continuous infusion or in patient-controlled analgesia (PCA) See KEMH Clinical Guideline links for more information</p> <p><u>IV injection</u> Inject undiluted over 3 to 5 minutes. May be diluted with sodium chloride 0.9% to facilitate slow injection When used for general anaesthetic, faster rates may be used.</p>

	<p><u>IV Use for infants and children</u> Inject undiluted over 3 to 5 minutes, or dilute with sodium chloride 0.9% or glucose 5% and give by continuous infusion.</p> <p><u>SUBCUT injection</u> Suitable in palliative care patients</p> <p><u>IM Injection</u> Suitable but not the preferred route. Injection is painful and absorption is variable.</p>
Pregnancy	<p>1st Trimester: Considered safe 2nd Trimester: Considered safe 3rd Trimester: Considered safe</p>
Breastfeeding	Considered safe
Monitoring	<p>Monitor sedation score and respiratory rate</p> <p>**May be used in renal impairment when other opioids are inappropriate</p>
Clinical Guidelines and Policies	<p>HDWA Policies: Schedule 8 Medicines Prescribing Code Using the opioid conversion guide</p> <p>FormularyOne: Formulary One - Fentanyl</p> <p>WNHS Policies: High Risk Medicines</p> <p>KEMH Clinical Guidelines: Pain and Anaesthesia: Neuraxial analgesia Patient controlled intravenous analgesia (PCIA): Postoperative Post anaesthetic Care Unit PACU Palliative Care</p> <p>KEMH Pharmaceutical & Medicines Management Guidelines: KEMH Pharmaceutical & Medicines Management Guideline: Medication Administration</p>
References	<p>Australian Medicines Handbook. Fentanyl. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2019 Sept 23]. Available from:</p>

	<p>https://amhonline.amh.net.au/</p> <p>The Royal Women's Hospital. Fentanyl. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2016 [cited 2019 Sept 23]. Available from: https://thewomenspbmg.org.au/</p> <p>Society of Hospital Pharmacists of Australia. Fentanyl. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2017 [cited 2019 Sept 23]. Available from: http://aidh.hcn.com.au</p> <p>Therapeutic Guidelines. Acute pain: perioperative. In: eTG complete [Internet]. West Melbourne (Victoria): Therapeutic Guidelines; 2017 [cited 2019 Sept 23]. Available from: https://tgldcdp-tg-org-au.kelibresources.health.wa.gov.au/etgAccess</p>
--	--

Keywords:	Fentanyl, post- operative pain, epidural analgesia, intravenous analgesia, PCIA, Opioid overdose, epidural opioids		
Publishing:	<input checked="" type="checkbox"/> Intranet	<input checked="" type="checkbox"/> Internet	
Document owner:	Chief Pharmacist		
Author / Reviewer:	Pharmacy Department		
Date first issued:	December 2010	Version:	4.0
Last reviewed:	March 2020	Next review date:	March 2023
Endorsed by:	Medicines and Therapeutics Committee	Date:	March 2020
Standards Applicable:	NSQHS Standards: 1  Governance, 4  Medication Safety		
<p>Printed or personally saved electronic copies of this document are considered uncontrolled.</p> <p>Access the current version from the WNHS website.</p> <p>For any enquiries relating to this guideline, please email KEMH.PharmacyAdmin@health.wa.gov.au</p>			

© Department of Health Western Australia 2020