

FENTANYL PATCH & EQUIVALENT MORPHINE DOSES

Strength	Delivery Rate (micrograms/hour)	SC Morphine (mg/24 hours)	Oral Morphine (mg)
Durogesic 25	25	30 - 40	60 - 100
Durogesic 50	50	60 - 80	120 - 200
Durogesic 75	70	90 - 120	180 - 300
Durogesic 100	100	120 - 160	240 - 400

FORMULA for calculating SUFENTANIL Break-Through Doses (BTD) for a given Fentanyl Patch.

For a given Fentanyl Patch of x mcg/hr: $BTD = x/5$ micrograms of Sufentanil 2 hourly

e.g for Durogesic 25: $BTD = 25/5$ i.e 5 microgram Sufentanil 2 hourly

Break-Through Doses should not exceed 40 micrograms Sufentanil

Sufentanil is available as 250 mcg/5ml – i.e. 50 mcg/ml

Oral Analgesic Preparations

Drug	Trade Name	Release Rate	Usual Frequency	Presentation
Tramadol	Tramal/Zydol	Immediate	every 4-6 hours	50mg tablet
	Tramal SR	Slow Release	every 12 hours	100mg, 150mg, 200mg tablet
Oxycodone	OxyContin	Slow Release	every 12 hours	5, 10, 20, 40, 80mg tablet
	Endone	Immediate	every 4-6 hours	5mg tablet
	OxyNorm	Immediate	every 4-6 hours	5, 10, 20mg capsule
Morphine	MS Contin	Slow Release	every 12 hours	5, 10, 15, 30, 60, 100, 200mg tab
	MS Contin Suspension	Slow Release	every 12 hours	20, 30, 100mg sachet
	MS Mono	Slow Release	every 24 hours	30, 60, 90, 120mg capsule
	Kapanol	Slow Release	every 12-24 hours	10, 20, 50, 100mg capsule
	Ordine	Immediate	every 2-4 hours	1mg, 2mg, 5mg, 10mg/ml mixture
Dextropropoxyphene /Paracetamol	Digesic/Capadex/ Paradex	Immediate	every 6-8 hours	32.5mg/325mg tablets/capsules
Hydromorphone	Dilaudid	Immediate	every 2-3 hours	2,4,8mg tabs, 1mg/ml mixt

Subcutaneous to Subcutaneous

Subcutaneous to Subcutaneous	Ratio	Example
SC Morphine to SC Hydromorphone (SC Morphine 5mg = SC Hydromorphone 1mg)	5 : 1	SC Morphine 10mg = SC Hydromorphone 2mg
SC Fentanyl to SC Sufentanil (SC Fentanyl 10mg = SC Sufentanil 1mg)	10 : 1	SC Fentanyl 100mcg = SC Sufentanil 10mcg
SC Morphine to SC Fentanyl (SC Morphine 70-100mg = SC Fentanyl 1mg)	70-100 : 1	SC Morphine 10mg = SC Fentanyl 100-150mcg
SC Morphine to SC Pethidine	1 : 10	SC Morphine 10mg = SC Pethidine 100mg

Subcutaneous to Other Opioid Conversions

Subcutaneous to Other	Ratio	Example
SC or SL Fentanyl to TTS Fentanyl (Fentanyl SC or SL 1mcg/hr = Fentanyl 1mcg/hr patch)	1 : 1	Fentanyl 600mcg/24 hr CSCI = Fentanyl patch 25 mcg/hr
SC Sufentanil to SL Sufentanil (Sufentanil SC 1mcg = Sufentanil SL 1mcg)	1 : 1	Sufentanil 10mcg CSCI = Sufentanil SL 10mcg
SC Morphine to IT Morphine (Morphine SC 100mg = Morphine IT 1mg)	100 : 1	Morphine 100mg/24 hr CSCI = Morphine IT 1mg daily
SC Morphine to Epidural Morphine (Morphine SC 10mg = Morphine Epidural 1mg)	10 : 1	Morphine 100mg/24 hr CSCI = Morphine Epidural 10mg daily
SC Morphine to I/Ventricular Morphine (Morphine SC 1000mg = Morphine Intraventricular 1mg)	1000 : 1	Morphine 100mg/24 hr CSCI = Morphine Intraventricular 0.1 mg daily

TTS = Transdermal Therapeutic System
CSCI = Controlled Subcutaneous Infusion

IT = Intrathecal Route

OPIOID CONVERSION GUIDELINES

When opioid rotating for intolerable side effects or inadequate analgesia, it is advisable to reduce the dose of the new opioid by 25-50% due to incomplete cross tolerance.

Please note that all conversions in these guidelines are a guide only as individual patients and drugs may react together in different ways.

Oral to Oral

Oral to Oral	Ratio	Example
Oral Morphine to Oral Tramadol	1 : 5	Oral Morphine 10mg = Oral Tramadol 50mg
Oral Morphine to Oral Codeine	1 : 8	Oral Morphine 7.5mg = Oral Codeine 60mg
Oral Morphine to Oral Methadone	?	Complex pharmacology, discuss with Consultant. Dose requires to be titrated.
Oral Morphine to Oral Oxycodone	1.5 : 1	Oral Morphine 15mg = Oxycodone 10mg
Oral Morphine to Oral Hydromorphone	5 : 1	Oral Morphine 5mg = Oral Hydromorphone 1mg
Oral Dextropropoxyphene to Oral codeine	1 : 1	Digesic/Capadex (32.5/325mg) = Panadeine Forte (30mg/500mg)

Oral to Subcutaneous

Oral to Subcutaneous	Ratio	Example
Oral Morphine to SC Morphine (Oral Morphine 2mg to 3mg = SC Morphine 1mg)	2-3 : 1	Oral Morphine 20-30mg = SC Morphine 10mg
Oral Methadone to SC Methadone (Oral Methadone 2mg = SC Methadone 1mg)	2 : 1	Oral Methadone 20mg = SC Methadone 10mg
Oral Hydromorphone to SC Hydromorphone (Oral Hydromorph. 2-3mg = SC Hydromorph. 1mg)	2-3 : 1	Oral Hydromorphone 2-3mg = SC Hydromorphone 1mg