

IV Morphine equivalents for commonly used drugs – ENCORE study

Conversion of Intravenous given drugs to IV morphine equivalents (IME)

Drug	Total daily dose (IV)	Calculate daily IV dose and then multiply by factor below = IME (mg)
Morphine	mg/day	1
Oxycodone	mg/day	1.5
Hydromorphone	mg/day	4.0
Codeine	mg/day	0.15
Pethidine	mg/day	0.13
Fentanyl	µg/day	0.066
Sufentanil	µg/day	0.66
Parecoxib (Dynastat)	mg/day	0.2 (uncertain/unclear)
Tapentadol	mg/day	0.4
Tramadol	mg/day	0.1
Ketorolac	mg/day	0.4
Transdermal Fentanyl	µg/hour	2.4

Buprenorphine: No conversion factor is available for agonist-antagonist

Conversion of Orally taken analgesics to IV morphine equivalents (IME)

Drug	Total daily dose (oral)	Calculate daily oral dose and then multiply by factor below = IME (mg)
Morphine	mg/day	0.33
Oxycodone	mg/day	0.33
Hydromorphone	mg/day	0.1
Codeine	mg/day	0.25
Pethidine	mg/day	0.4
Fentanyl	µg/day	0.2
Sufentanil	µg/day	2
Tramadol	mg/day	0.033
Tapentadol	mg/day	0.133

