

**Appendix 2: Opioid oral morphine milligram equivalent conversion table**

	<b>Conversion factor</b>	<b>Dose Equivalent Morphine Sulphate (30 mg)</b>
<b>Morphine</b>		
Oral (= rectal)	1	30 mg
Intravenous	3	10 mg
Epidural	30	1 mg
Intrathecal	300	0,1 mg
Oxycodone	1.5	20 mg
Codeine	0.15	200 mg
Tramadol	0.2	150 mg
<b>Fentanyl</b>		
Transdermal	2.4	12.5 mcg/hour
Intravenous	300	0,1 mg
Sublingual	0.13	230 mcg
Nasal	0.16	190 mcg
<b>Remifentanyl</b> (intravenous)	300	0.1mg (= 100 mcg)
<b>Sufentanyl</b> (intravenous)	3000	0.01 mg (= 10 mcg)
<b>Buprenorphine</b>		
Sublingual	0.05	600 mcg
Transdermal	2.3	13 mcg/hour
Intravenous	75	0.4 mg
<b>Hydromorphone</b>		
Oral	4	7.5 mg
Intravenous	8	3.75 mg
<b>Piritramide</b> (dipidolor) intravenous	2	15 mg
<b>Tapentadol</b>		
Oral	0.4	7.5
<b>Methadone</b>		
Oral 0-20 mg	4	7.5 mg
21-50 mg	8	3.75 mg
>51 mg	10	3 mg
Intravenous	3	10 mg
<b>Pethidine</b>		
Intramuscular/subcutaneous	0.3	100 mg