

Appendix 15 – Approximate Equi-analgesic Potencies of Opioids

Oral administration

	Potency ratio with oral morphine	Equivalent dose to 10mg oral morphine
Codeine phosphate	0.1	100mg
Dihydrocodeine	0.1	100mg
Tramadol	0.1	100mg
Morphine	1	10mg
Oxycodone	1.5	6.6mg
Tapentadol	0.4	25mg

Transdermal administration

Transdermal buprenorphine changed at weekly intervals	5 microgram/hour	10 microgram/hour	20 microgram/hour
Codeine phosphate (mg/day)	120mg	240mg	
Tramadol (mg/day)	100mg	200mg	400mg
Morphine sulphate (mg/day)	12mg	24mg	48mg

Transdermal buprenorphine changed every three or four days (twice weekly)	35 microgram/hour	52.5 microgram/hour	70 microgram/hour
Morphine sulphate (mg/day)	84mg	126mg	168mg

Fentanyl patch strength (microgram/hour)	Oral morphine (mg/day)
12	30
25	60
50	120
75	180
100	240
200	480
300	720