



Approximate Dose Conversion Table

Approximate dose conversion ratio; PO to PO			
Conversion	Ratio	Calculation	Example
Codeine to morphine	10:1	Divide 24h codeine dose by 10	Codeine 240mg/24h PO → morphine 24mg/24h PO
Tramadol to morphine	5:1	Divide 24h tramadol dose by 5	Tramadol 400mg/24h PO → Morphine 80 mg/24h PO
Morphine to methadone	Discuss with palliative medicine consultant		
Approximate dose conversion ratio; PO to SC/IV			
Morphine to morphine	3:1	Divide 24h morphine dose by 3	Morphine 30mg/24h PO morphine 10 mg/24h SC/IV → morphine 0.4mg/h SC/IV
Methadone to methadone	2:1	Divide 24h methadone dose by 2	Methadone 30mg/24h PO → methadone 15 mg/24h SC/IV
Morphine to fentanyl		Use same calculation as for transdermal patch	
Approximate dose conversion ratio; PO to TD			
Morphine to fentanyl	100:1	Multiply 24h morphine PO dose in mg by 10 to obtain 24h fentanyl dose; divide answer by 24 to obtain mcg/hr patch strength	Morphine 120 mg/24h PO → Fentanyl 1,200 mcg/24h; → 1,200/24= 50 mcg patch q 72h.

Or

PO morphine mg/24h	Fentanyl patch strength mcg/h
30	12
60	25
120	50
180	75



Equianalgesic Opioid Doses

Approximate doses only

Oral morphine		IV/SC hourly infusions		TD patch
Morphine normal release Tab/Syr mg 4hrly	Morphine tab sustained release (MST) mg 12 hrly	Morphine infusion mg/hr continuous	Fentanyl infusion mcg/hr continuous	Fentanyl patch mcg/hr every 72 hrs
2.5	10	0.2	4 - 6	
5	10 or 20	0.4	8 - 12	12
10	30	0.8	17 - 25	25
15	40 or 50	1.2	25 - 37	37
20	60	1.6	33 - 50	50
25	70 or 80	2.1	42 - 62	62
30	90	2.5	50 - 75	75
35	100	2.9	58 - 87	87
40	120	3.3	67 - 100	100
50	150	4.1	83 - 125	125
60	180	5	100 - 150	150
80	240	6.7	133 - 200	200
90	270	7.5	150 - 225	225
100	300	8.3	167 - 250	250
120	360	10	200 - 300	300
140	420	11.7	233 - 350	350

Please call Palliative Care Unit on 081-7087909, 043-366598-9 for any queries.