

Opioid Conversion Factors			
Type of Opioid	MME conversion factor*	Notes	References
Morphine (PO) (reference)	1		[2]
Codeine (PO)	0.15		[2] [3] [4]
Fentanyl (IV, SC, IM)	0.1	Fentanyl dose must be in mcg prior to conversion. This conversion is 1000 mcg of IV fentanyl = 100 mg of PO morphine.	[1][2][4]
Fentanyl (patch)	2.4	Fentanyl dose must be in mcg/hr. This converts to MMEq/day	[2][3][5]
Hydrocodone	1		[2][3][6]
Hydromorphone (IV, SC, IM)	20	Hydromorphone dose must be in mg	[4][6]
Hydromorphone (PO)	4	Hydromorphone dose must be in mg	[1][2][3][4]
Oxycodone (PO)	1.5		[2][4][6]
Methadone (IV)	13.5		[7]
Methadone (PO)	4	Assumes low-dose opioid use PO Bioavailability: 36% to 100%	[1] [2]
Morphine (IV, SC, IM)	3		[4][6]
Tramadol (PO)	0.1		[2][3]

Legend: Opioid Conversion Factors: Opioid Dose multiplied by the conversion factor = oral morphine milligram equivalent (MMEq); mcg =microgram; PO= enteral; IV = intravenous; SC = subcutaneous; IM= intramuscular

Table 2- GABA Conversion Factors Final Recommendations		
Type of benzodiazepine	Diazepam conversion factor	References
Diazepam (IV, IM, PO, PR) (reference)	1	[8] [10]
Clonazepam (PO)	2.5	[8]
Lorazepam (IV, PO)	5	[8] [10]
Midazolam (IM, IV)	2.5	[9][10]

Legend

References

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