



**ORAL MORPHINE MILLIGRAM EQUIVALENT CONVERSION TABLE<sup>i</sup>**

**Updated 8/16/2017**

<b>Opioid (strength in mg except where noted)</b>	<b>MME Conversion Factor</b>
<b>Buprenorphine, transdermal patch (MCG/HR)</b>	12.6
<b>Buprenorphine, tablet or film</b>	30
<b>Buprenorphine, film (MCG)</b>	0.03
<b>Butorphanol</b>	7
<b>Codeine</b>	0.15
<b>Dihydrocodeine</b>	0.25
<b>Fentanyl, buccal/SL tablet or lozenge/troche (MCG)</b>	0.13
<b>Fentanyl, film or oral spray (MCG)</b>	0.18
<b>Fentanyl, nasal spray (MCG)</b>	0.16
<b>Fentanyl, transdermal patch (MCG/HR)</b>	7.2
<b>Hydrocodone</b>	1
<b>Hydromorphone</b>	4
<b>Levomethadyl acetate</b>	8
<b>Levorphanol tartrate</b>	11
<b>Meperidine</b>	0.1
<b>Methadone</b>	3
<b>Morphine</b>	1
<b>Opium</b>	1
<b>Oxycodone</b>	1.5
<b>Oxymorphone</b>	3
<b>Pentazocine</b>	0.37
<b>Tapentadol</b>	0.4
<b>Tramadol</b>	0.1

NOTE: These dose conversions are estimated and cannot account for all individual differences in genetics and pharmacokinetics.

Please see documentation for additional information on using the formula with transdermal patches. The documentation can be accessed here:

<http://www.pdmpassist.org/pdf/Conversion%20Reference%20Table.xlsx>



## **CALCULATION OF DAILY MORPHINE EQUIVALENT DOSE (MED)**

Strength per Unit X (Number of Units/ Days Supply) X MME conversion factor = Daily MED

Example: 10 mg oxycodone tablets X (120 tablets/ 30 days) X 1.5 = 60 Daily MED

Example: 25 µg/hr fentanyl patch X (10 patches/ 30 days) X 7.2 = 60 Daily MED

To assist prescribers, the Board has developed an online calculator, which can be accessed by visiting: [www.pharmacy.ohio.gov/calculator](http://www.pharmacy.ohio.gov/calculator)

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<sup>i</sup> National Center for Injury Prevention and Control. CDC compilation of benzodiazepines, muscle relaxants, stimulants, zolpidem, and opioid analgesics with oral morphine milligram equivalent conversion factors, 2016 version. Atlanta, GA: Centers for Disease Control and Prevention; 2016. Available at [http://www.pdmpassist.org/pdf/BJA\\_performance\\_measure\\_aid\\_MME\\_conversion.pdf](http://www.pdmpassist.org/pdf/BJA_performance_measure_aid_MME_conversion.pdf).