



# Opioid Conversion Table

| Opioids*                 | To convert to oral morphine equivalent, multiply by:   | To convert from oral morphine, multiply by: | 50 MED equivalent dose | 90 MED equivalent dose |
|--------------------------|--|---|------------------------|------------------------|
| Oral preparations (mg/d) |  |   |                        |                        |
| Codeine                  | 0.15 (0.1-0.2)   | 6.67  | 334 mg/d               | 600 mg/d               |
| Hydromorphone            | 5.0  | 0.2   | 10 mg/d                | 18 mg/d                |
| Morphine                 | 1.0  | 1   | 50 mg/d                | 90 mg/d                |
| Oxycodone                | 1.5  | 0.667                                       | 33 mg/d                | 60 mg/d                |
| Tapentadol               | 0.3-0.4  | 2.5-3.33                                    | 160                    | 300                    |
| Tramadol                 | 0.1-0.2  | 6   | 300                    | 540**                  |
| Transdermal fentanyl     | 60 - 134 mg morphine = 25 mcg/h<br>135 - 179 mg = 37 mcg/h<br>180 - 224 mg = 50 mcg/h<br>225 - 269 mg = 62 mcg/h<br>270 - 314 mg = 75 mcg/h<br>315 - 359 mg = 87 mcg/h<br>360 - 404 mg = 100 mcg/h |   |                        |                        |

\*Conversion ratios for opioids are subject to variation in kinetics governed by genetics and other drugs.

\*\*The maximum recommended daily dose of tramadol is 300 mg - 400 mg depending on the formulation.

This table has been adapted from the Opioid Manager, Centre for Effective Practice (September 2017) and the 2017 Canadian Guideline for Opioids for Chronic Non -Cancer Pain, National Pain Centre, McMaster University.