**Supplemental Digital Content 1.** Opioid conversion doses.

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| **Medication name** | **Route** | **Units** | **Equivalent Dose** |
| Morphine | IV | mg | 10 |
| Morphine | oral | mg | 30 |
| Fentanyl | IV | mg | 0.1 |
| Fentanyl | IV | mcg | 100 |
| Fentanyl | patch | mg | 0.1 |
| Fentanyl | patch | mcg | 100 |
| Fentanyl | epidural PCA | mg | 0.1 |
| Fentanyl | oral | mg | 0.229 |
| Fentanyl | oral | mcg | 229 |
| Alfentanil | IV | mg | 0.67 |
| Meperidine | IV | mg | 75 |
| Meperidine | oral | mg | 333 |
| Demerol | IV | mg | 75 |
| Oxycodone | oral | mg | 20 |
| Percocet | oral | mg | 20 |
| Percocet 5/325 | oral | tabs | 6 |
| Darvocet | oral | tabs | 1 |
| Propoxyphene | oral | tabs | 1 |
| Oxycontin | oral | mg | 20 |
| Hydrocodone | oral | mg | 30 |
| Vicodin 5/500 | oral | tabs | 6 |
| Vicodin 7.5/500 | oral | tabs | 4 |
| Tramadol | oral | mg | 150 |
| Hydromorphone | IV | mg | 1.5 |
| Hydromorphone | oral | mg | 7 |
| Dilaudid | IV | mg | 1.5 |
| Dilaudid | oral | mg | 7 |
| Remifentanil | IV | mg | 0.1 |
| Sufentanil | IV | mg | 0.01 |
| Methadone | oral | mg | 20 |
| Codeine | oral | mg | 200 |

PCA = Patient-controlled analgesia; IV = intravenous.