

## **Equianalgesic Dosing Chart**

**All equivalencies are approximate; use this chart as a guideline only.**

### **Oral Routes:**

	<b>Ratio</b>
Morphine 10 mg = Percocet 1 tab (5/325) = Oxycodone 5 mg	2:1
Morphine 10 mg = Codeine 100 mg = 3 Tylenol #3 tabs (90/900)	1:10
Morphine 10 mg = Hydromorphone 2 mg	5:1

### **Oral to Subcutaneous Routes: Ratio 2 (po): 1 (SC)**

Morphine 10 mg po = Morphine 5 mg SC  
Dilaudid 10 mg po = Dilaudid 5 mg SC

### **Subcutaneous Equianalgesia:**

Morphine 10 mg SC = Dilaudid 2 mg SC

### **Transdermal Equianalgesia: There are various accepted methods of conversion:**

Morphine 50 mg po in 24 hrs = Fentanyl 25 mcg patch q72h (Donner et al., 1996)  
Morphine 60-134 mg po in 24 hrs = Fentanyl 25 mcg patch q72h (CPS, 2006)

Produced in collaboration with the Palliative Medicine Team, Lambton County and the Palliative Pain & Symptom Management Consultation Program, Southwestern Ontario, Lambton & Kent Counties.  
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## **CALCULATING BREAKTHROUGH DOSES (BTD)**

### **For opioids taken by mouth:**

- Calculate 10 % of total of regularly scheduled opioid in 24 hours
- BTD usually given q1h po prn  
e.g. Morphine 15mg q12h po= 30mg po total in 24 hours  
10 % of 30 mg = 3mg po q1h prn for breakthrough pain

### **For opioids taken S.C:**

- Calculate 30% - 50% of the regularly scheduled q4h SC dose
- BTD usually given q ½ - 1h SC prn  
e.g. Morphine 10 mg q4h SC  
30% of 10 mg = 3 mg SC q½ - 1h prn  
50% of 10 mg = 5 mg SC q½ - 1h prn

### **For CSCI:**

- Calculate 50% -100% of the regular hourly SC dose
- BTD usually given q½ - 1h SC prn  
e.g. Morphine 1mg q1h SC continuous infusion  
50% of 1mg = 0.5 mg SC q½h - 1h prn  
100% of 1mg = 1mg SC q½h - 1h prn