

## Opioid Rotation Worksheet: Please fill in each box

Formula	Specific Answer
<p><b>Total in 24 hours of each opioid</b></p> <p>Calculate the <b>total amount</b> of each route of each <b>opioid</b> given in the previous 24 hours, including regular and PRN doses.</p>	
<p><b>Consider cross-tolerance and calculate the reduction, if applicable.</b></p> <p>To account for incomplete cross-tolerance, <b>calculate and subtract 30% to 50%</b> reduction of the 24-hour dose of any opioid being rotated to a new (different) opioid. Clinical judgement is used in determining the degree of reduction. Always confirm with a resource expert if you are unsure.</p>	
<p><b>One route</b></p> <p>Using ROUTE conversion ratio (i.e., po to sc /IV of 2:1), convert to one route of administration.</p>	
<p><b>One Drug Current Total</b></p> <p>Using DRUG conversion ratio (i.e., Morphine 10mg po = Hydromorphone 2mg po), convert to one drug.</p> <p>Choose the medication you plan to use for regular dosing, convert and add together.</p>	
<p><b>Choose scheduled dosing times.</b></p> <p>Choose new regular (ATC) dose, divide total 24-hour amount by appropriate interval based on product to be used.</p> <p><b>For example:</b> divide by 6 for q4h dose; divide by 2 for q12h dose; divide by 24 for hourly infusion.</p>	
<p><b>Calculate the breakthrough dose: (BTD)</b></p> <p>Calculate approximately 10% of the total daily dose of the <b>scheduled</b> opioid.</p> <p><b>For opioids taken by mouth</b></p> <p><b>Example:</b> Morphine 15mg q12h po = 30mg po total in 24h, 10% of 30mg = 3mg (max dose) po q1h prn</p> <p><b>For opioids taken subcut</b></p> <p><b>Example:</b> Morphine 10mg q4h subcut = 60mg subcut in 24h, 10% of 60mg = 6mg (max dose) subcut q1h prn</p> <p><b>For opioids per CSCI</b></p> <p><b>Example:</b> Morphine 2.5mg q1h subcut continuous infusion = 60mg subcut in 24h, 10% of 60 mg = 6 mg (max dose) subcut q1h prn or *3 mg subcut q1/2h prn</p>	<p><i>* clinical judgement may indicate the need to lower the calculated dose or round to the strength of opioid available on the formulary</i></p>

Adapted from: Comprehensive Advanced Palliative Care Education (CAPCE) Program