

**Jackson County Medical Control Authority**  
**MICU Protocols**  
**NITROPRUSSIDE (NITROPRESS)**

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***Nitroprusside (Nitropress)***

**Indications:** Hypertensive emergencies including stroke, aortic dissection, acute MI, CHF.

**Contra-indications:** Compensatory hypertension. Extreme caution indicated in use with patients with renal or hepatic insufficiency.

**Adverse Effects:** Hypotension, tachycardia, thiocyanate and cyanide toxicity found especially in patients with renal or hepatic insufficiency: Thiocyanate toxicity may be seen by tinnitus, blurred vision and delirium.

**Administration:** Infusion of 0.5 to 10 mcg/kg/min. (mix 50 mg Nitroprusside in 250 ml/D5W) titrated carefully to desired effect.

<b>Patient Weight</b>								
<b>mcg/min</b>	<b>30 kg</b>	<b>40 kg</b>	<b>50 kg</b>	<b>60 kg</b>	<b>70 kg</b>	<b>80 kg</b>	<b>90 kg</b>	<b>100kg</b>
<b>0.5 mcg</b>	<b>4.5</b>	<b>6</b>	<b>7.5</b>	<b>9</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>15</b>
<b>1 mcg</b>	<b>9</b>	<b>12</b>	<b>15</b>	<b>18</b>	<b>21</b>	<b>24</b>	<b>27</b>	<b>30</b>
<b>2 mcg</b>	<b>18</b>	<b>24</b>	<b>30</b>	<b>36</b>	<b>42</b>	<b>48</b>	<b>54</b>	<b>60</b>
<b>4 mcg</b>	<b>26</b>	<b>48</b>	<b>60</b>	<b>72</b>	<b>84</b>	<b>96</b>	<b>108</b>	<b>120</b>
<b>8 mcg</b>	<b>72</b>	<b>96</b>	<b>120</b>	<b>144</b>	<b>166</b>	<b>192</b>	<b>216</b>	<b>240</b>
<b>10 mcg</b>	<b>90</b>	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>

*ml/hr*

**MICU Directives:**

1. Follow generalized protocol for MICU transports.
2. Maintain appropriate delivery by IV infusion pump.
3. Monitor vital signs every 5 minutes.
4. Solution bag should be wrapped in foil due to light sensitivity.
5. If an invasive arterial line monitoring device is present and compatible with MICU equipment, continue monitoring during transport.