

Jackson County Medical Control Authority

MICU Protocols

NITROPRUSSIDE (NITROPRESS)

Date: December 2017

Page 1 of 1

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.

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

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.