

Jackson County Medical Control Authority
MICU Protocols
ESMOLOL (BREVIBLOC)

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Esmolol (Brevibloc)

Indications: Rapid control of SVT, atrial fibrillation or flutter.

Contra-indications: Should not be given to patients with COPD or cardiac conduction abnormalities (second or third degree heart block) or in the presence of hypotension, shock or bronchospasm.

Adverse Effects: Hypotension, bradycardia, bronchospasm

Administration: Mixing instructions: 5 grams in 500ml, 5% dextrose or 0.9% normal saline.
 Loading dose of 500 mcg/kg over 1 minute followed by infusion of 50 mcg/kg/min. If no therapeutic effect after 5 minutes, may repeat loading dose and increase infusion to 100 mcg/kg/min. This sequence may be repeated every 5 minutes to a maximum infusion of 200 mcg/kg/min.

		Patient Weight							
<i>mg/kg/min</i>	<i>40 kg</i>	<i>50 kg</i>	<i>60 kg</i>	<i>70 kg</i>	<i>80 kg</i>	<i>90 kg</i>	<i>100 kg</i>	<i>110 kg</i>	<i>120 kg</i>
<i>50 mcg</i>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>	<u>24</u>	<u>27</u>	<u>30</u>	<u>33</u>	<u>36</u>
<i>100 mcg</i>	<u>24</u>	<u>30</u>	<u>36</u>	<u>42</u>	<u>48</u>	<u>54</u>	<u>60</u>	<u>66</u>	<u>72</u>
<i>150 mcg</i>	<u>36</u>	<u>45</u>	<u>54</u>	<u>63</u>	<u>72</u>	<u>81</u>	<u>90</u>	<u>99</u>	<u>108</u>
<i>200 mcg</i>	<u>48</u>	<u>60</u>	<u>72</u>	<u>84</u>	<u>96</u>	<u>108</u>	<u>120</u>	<u>132</u>	<u>144</u>

ml/kg

MICU Directives:

1. Follow protocol for generalized MICU transports.
2. Maintain appropriate delivery rate by IV infusion pump.
3. Monitor vital signs every 5 minutes.
4. Discontinue if patient develops hypotension, bradycardia, bronchospasm.