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Schwann Cell Analysis of Mouse Heart Blood Vessels

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Abstract

ZnSO_4_3\textsuperscript{5}\textsuperscript{-}mg/kg iv decreased systolic arterial blood pressure, diastolic blood pressure and mean arterial blood pressure. Increase in ZnSO_4 concentration and injection rate did not increase the extent of hypotension.

Key words: zincco; hemodynamics; hypotension; heart function tests

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Results
ZnSO₄ 3-5 mg/kg iv, 3 and 5 mg/kg two

Discussion

Tab 1. Effects of iv ZnSO₄ on hemodynamics of anesthetized open-chest dogs, \( n = 7 \), \( 8 \pm 0.6 \), **P < 0.05, ***P < 0.01, ****P < 0.001, \text{as before}.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Before</th>
<th>1 mg/kg</th>
<th>5 mg/kg</th>
<th>Interval 20 min</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR (bpm)</td>
<td>130±10</td>
<td>121±14***</td>
<td>104±30</td>
<td>90±28***</td>
<td></td>
</tr>
<tr>
<td>SBP (kPa)</td>
<td>17±1.5</td>
<td>14±1.2***</td>
<td>12±0.5</td>
<td>12±0.5***</td>
<td></td>
</tr>
<tr>
<td>DBP (kPa)</td>
<td>11±2.5</td>
<td>9±1.4***</td>
<td>7±1.8</td>
<td>6±1.2***</td>
<td></td>
</tr>
<tr>
<td>MAP (kPa)</td>
<td>13±1.5</td>
<td>10±0.8***</td>
<td>9±1.4</td>
<td>6±1.2***</td>
<td></td>
</tr>
<tr>
<td>LVSP (kPa)</td>
<td>44±4</td>
<td>14±5***</td>
<td>10±6</td>
<td>12±1.8***</td>
<td></td>
</tr>
<tr>
<td>+dp/dt max (kPa/s)</td>
<td>255±72</td>
<td>195±77***</td>
<td>157±56</td>
<td>106±43***</td>
<td></td>
</tr>
<tr>
<td>-dp/dt min (kPa/s)</td>
<td>117±35</td>
<td>82±55**</td>
<td>61±32</td>
<td>39±56**</td>
<td></td>
</tr>
<tr>
<td>CI (l/min·m²)</td>
<td>1.4±0.2</td>
<td>1.0±0.2**</td>
<td>1.0±0.1</td>
<td>0.7±0.3**</td>
<td></td>
</tr>
<tr>
<td>TPR (dyne·s/cm²·m²)</td>
<td>109±33</td>
<td>113±34*</td>
<td>142±71</td>
<td>156±89*</td>
<td></td>
</tr>
<tr>
<td>VCO₂ (ml/kg·min)</td>
<td>94±32</td>
<td>51±23**</td>
<td>73±37</td>
<td>62±27**</td>
<td></td>
</tr>
<tr>
<td>T value (ms)</td>
<td>130±51</td>
<td>155±51*</td>
<td>192±76</td>
<td>183±65*</td>
<td></td>
</tr>
</tbody>
</table>
References


