LEUKOCYTE ADHESION CHANGES AFTER MYOCARDIAL ISCHEMIA IN THE RABBIT. R.N. Sampsel, B.Herscovici, J.Moore and H.N. Mayrovitz. Miami Heart Institute, Miami Bch, FL 33140

It is well documented that leukocytes can produce a variety of deleterious effects associated with myocardial ischemia and reperfusion. The aim of the present study was to determine if changes in leukocyte adherence (ADH) accompany this process. Thus, 17 rabbits were subjected to 45 minutes of coronary artery occlusion followed by 6 hours of reperfusion in an open chest model. Blood samples were obtained 15 minutes prior to ischemia induction, and at 30 and 300 minutes after occlusion release. Adherence was determined in triplicate by passing 1 ml of heparinized whole blood through filters consisting of sterilized and finely teased nylon fibers (60 mg) packed to the 0.4 level in plastic tuberculin syringes. Data for leukocyte counts (CNT), adherence, and the CNT x ADH product (CxA) are shown below as mean ± sd with * and ** indicating p<0.05 and p<.01.

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>CNT (x 10^3)</th>
<th>ADH (%)</th>
<th>CxA (10^-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIOR</td>
<td>4863 ± 2670</td>
<td>26.0 ± 17.7</td>
<td>12.7 ± 11.6</td>
</tr>
<tr>
<td>POST 30</td>
<td>5911 ± 2498</td>
<td>28.4 ± 18.1</td>
<td>15.5 ± 9.2*</td>
</tr>
<tr>
<td>POST 300</td>
<td>6270 ± 2384*</td>
<td>36.8 ± 21.5*</td>
<td>25.6 ± 17.3**</td>
</tr>
</tbody>
</table>

The increase in leukocyte CNT and ADH late in reperfusion may combine (CNT x ADH) to affect the microvasculature, and directly or indirectly, affect resultant infarct size.

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