Value Of Prostaglandins In CLI For Diabetics And Non-Diabetics: Beneficial Effects Can Be Documented By Flow Measurements

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I have nothing to disclose related to this presentation

Intraoperative Flow measurement

before revascularisation

after revascularisation

2x after Ilprost administration
Results I

Patients | Diabetic | Non-Diabetic | Neuropathie | Bypass | Fem-reconst
---|---|---|---|---|---
38 | 14 | 24 | 21 | 12 | 26

(31 Male, 7 Female), mean age 66.3 +/- 12.2 years

Results II

<table>
<thead>
<tr>
<th>PRU= MAP (mmHg)/VF (ml/min)</th>
<th>after reconstruction</th>
<th>after 5 min administration</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetic</td>
<td>0.36 +/- 0.18</td>
<td>0.24 +/- 0.08</td>
<td>0.026</td>
</tr>
<tr>
<td>Non-Diabetic</td>
<td>0.40 +/- 0.27</td>
<td>0.26 +/- 0.20</td>
<td>0.014</td>
</tr>
</tbody>
</table>

Reduction in peripheral resistance I
Results III

<table>
<thead>
<tr>
<th></th>
<th>PRU= MAP (mmHg)</th>
<th>VF (ml/min)</th>
<th>5 min after administration</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>W/o neuropathy</td>
<td>0.31 ± 0.09</td>
<td>0.22±0.07</td>
<td>0.017</td>
<td></td>
</tr>
<tr>
<td>With neuropathy</td>
<td>0.37 ± 0.23</td>
<td>0.28±0.21</td>
<td>0.057</td>
<td></td>
</tr>
</tbody>
</table>

Conclusion

• Prostaglandin derivates increase peripheral flow by decreasing peripheral resistance in diabetic and nondiabetics; however, relevantly more in non diabetics

Conclusion

• Prostaglandin derivates increase peripheral flow by decreasing peripheral resistance in diabetic and nondiabetics; however, relevantly more in non diabetics

• In patients with neuropathy, a significant increase of flow was not seen after Prostaglandin administration

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Thank you!

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