Case Report

Creation of AV Fistula to Achieve Distal Foot Revascularization in Ischemia

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Introduction

Ischemia of foot is not a rare problem and is found in diabetes, atherosclerosis and Buerger’s disease. Many a times if ischemia is not treated properly it may progress to gangrene requiring amputation of foot [1]. There are various modalities of treatment which are effective like arterial bypass and angioplasty [2] and stem cell transplantation. Arterial bypass is effective if there is occlusion of short or long segments of vessels but terminal arterial tree is free of occlusion which is not the case in most of the patients of diabetes and atherosclerosis. Angioplasty is also effective in short segment occlusion and not very effective in terminal arterial tree blockage. There is no report of stem cell transplantation in such patients. There are reports of stem cell transplantation in muscles in leg ischemia but not in distal vessel disease. For such patients who have blockage of distal arterial tree we have developed the technique of creation of AV fistula between patent artery and venous system to increase the blood supply of distal foot. We did the procedure in 21 patients over a period of five years and archived good results.

Material and Method

21 patients were taken in study age varying from 36 to 65 years and 18 males and 3 females, the common condition are given in table 1.

<table>
<thead>
<tr>
<th>Site</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great toe L foot</td>
<td>5 patients</td>
</tr>
<tr>
<td>Great toe R foot</td>
<td>6 patients</td>
</tr>
<tr>
<td>Dorsum foot</td>
<td>9 patients</td>
</tr>
<tr>
<td>Other sites</td>
<td>1 patient</td>
</tr>
</tbody>
</table>

Table 1: Different sites in diabetic foot.
(Figure 2). There was immediate relief from ischemic pain and wounds starts healing.

**Figure 1:** Pre-operative showing diabetic toe.

**Figure 2:** Post-operative after fistula formation.
Result

Creation of AV fistula in management of ischemic legs and feet is good method of management of distal leg and feet ischemia.

Conclusion

In patients having distal leg and foot ischemia creation of AV fistula is good method.

References

