

Can The RIMA Arm of The LIMA RIMA T Graft Configuration Supply Up to 4 Distal Anastomoses Including One to The PDA?

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Objective:

To assess the ability of the RIMA arm of LIMA RIMA T graft configuration to supply several anastomoses, including one to the PDA.

Methods:

Perioperative and long term (80 ± 6 months) data of 30 patients who underwent revascularization using the LIMA RIMA T graft configuration with 4 - 6 distal anastomoses including one to the PDA, between June 2005 - November 2006.

Results:

Perioperative variables: Mean age 56 ± 9 years, male gender 90%, LV dysfunction was present in 5 patients (17%), IABP two patients (7%) urgent operation 4 patients (14%). Diabetes - 8 patients (27%), renal failure - 3 patients (10%) and preoperative CVA - 3 patients (10%). Mean patients Euroscore - 3.26%.

During operation, 4.6 ± 0.6 anastomoses were performed (4 to 6). 2.83 ± 0.6 anastomoses were performed with the RIMA (2-4). There was no in-hospital mortality. The only significant post operative complication was superficial sternal wound infection in two patients (7%). Mean hospitalization was 6.9 ± 3.2 days.

During 80 ± 6 months follow up period, one patient died after CVA. Late MI was diagnosed in one patient. Post operative echocardiography showed improvement in cardiac performance in 3 patients and no cases of LV deterioration. 28 patients (93%) had normal postoperative Thallium stress test with no evidence of RCA territory ischemia. One patient had evidence of a small RCA territory area of ischemia with no clinical significance and one patient had signs of anterior and lateral ischemia and later on underwent cardiac catheterization that showed graft occlusion. Five patients underwent late post operative angiography. In two patients graft occlusion was diagnosed (7%).

Conclusions:

CABG using complicated LIMA RIMA T graft configurations is safe and provides good long-term survival, relief of angina, and prevention of myocardial infarction. The RIMA arm of the T graft can safely supply up to 4 distal anastomoses including one to the PDA.