

MEETING ABSTRACT

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# Cabrol technique in coronary artery bypass grafting

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## Background/Introduction

In coronary artery bypass surgery, proximal anastomosis between the ascending aorta and an arterial or venous graft may be conducted by side-to-side maneuver (Cabrol-type).

## Aims/Objectives

We evaluated the long-term clinical outcome and aorto-coronary graft patency of Cabrol-type proximal anastomosis in coronary artery bypass grafting (CABG).

## Method

From 2002 to 2012, 460 patients (age,  $64.7 \pm 8.3$  years) underwent CABG using Cabrol technique. The graft configuration included the anastomosis of saphenous vein (SV) to saphenous vein (n = 266), SV to radial artery (RA) (n = 65), RA to SV (n = 108), RA to RA (n = 8), and others (n = 11) (Figure). The mean follow-up duration was  $50.3 \pm 32.3$  months. Postoperatively, coronary computed tomography angiography (CTA) was checked in 362 patients (78.7%).

## Results

The operative mortality was 3.9%. The actuarial rate of the overall survival at 1, 5, and 10 years was  $97.7\% \pm 0.7\%$ ,  $88.6\% \pm 1.6\%$ , and  $70.4\% \pm 4.0\%$ , respectively. The actuarial MACCE-free survival at 1, 5, and 10 years was  $97.7\% \pm 0.7\%$ ,  $89.9\% \pm 1.6\%$ , and  $84.2\% \pm 2.8\%$ , respectively. Of 301 patients who used LITA (in situ) to LAD anastomosis, 712 grafts (mean, 2.4 grafts per patient) were used in Cabrol-type anastomosis. The 1-, 2-, 5-, and 8-year patency of graft in Cabrol-type anastomosis was  $91.4\% \pm 1.2\%$ ,  $88.8\% \pm 1.4\%$ ,  $80.7\% \pm 2.2\%$ , and  $76.3\% \pm 3.7\%$ , respectively.

## Discussion/Conclusion

This alternative proximal anastomosis technique in CABG demonstrated relatively comparable patency of aortocoronary graft.

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