

WCC 2017-A-112: CT ANGIOGRAPHIC ASSESSMENT OF CORONARY ARTERY BYPASS GRAFT

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ABSTRACT:

Introduction: CT Angiography (CTA) is a noninvasive imaging modality to evaluate the vascular system. In coronary artery bypass graft patients, this study is helpful to evaluate the status of graft.

AIMS & OBJECTIVE:

To evaluate the coronary artery bypass graft on CT angiography.

MATERIAL & METHOD:

This was a prospective study conducted during Feb-15 to April-16 at our institute. Total 91 post-CABG patients referred from CVTS department were undergone CT angiography study using standard CTA-CABG protocol on 128 slice CT scanner. Post processing was done and images were analyze for presence and patency of graft, distal native artery status.

RESULT:

Total 137 grafts were evaluated in 91 patients of which 73% were patent and 27% were stenosed/occluded. 90 were arterial grafts of which 27.77% were stenosed/occluded. Out of total 47 venous grafts, 25.53% showed stenosis/occlusion. Distal native artery was normal in 68.61% cases and in rest cases it showed stenosis/occlusion.

CONCLUSION:

CTA noninvasively assess the presence and patency of the graft and distal native artery status in post-CABG patients, which guides the CVTS surgeon in the management of these patients. Our study showed no significant difference in the type of graft (arterial/venous) and their stenosis/occlusion.

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