

# **CARDIOTHORACIC AND VASCULAR SURGERY**

# Coronary Artery Bypass Grafting on beating heart in Norvic Hospital

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## Purpose

Coronary artery bypass grafting (CABG) with the use of Heart Lungs machine (extra corporeal circulation) is associated with certain risks, which may be avoided by using the Octopus stabilizer - beating heart bypass surgery (off pump). We demonstrate the early results of 44 cases of CABG on beating heart in Norvic - Escort International Hospital.

## Methods

From 06<sup>th</sup> January 2002 to 6<sup>th</sup> January 2004 in Norvic - Escort International Hospital Total 44 patients under went CABG on beating heart with off pump lechniques. Among them 35 patients were male and 8 female. Age of the patients varies from 40 to 75 years (mean  $57.16 \pm 9.08$ ), Ejection fractions of left ventricle (LVEF) were from 29% to 74% (mean  $48.89 + 10.99$ ), Seven patients had LVEF less than 40%, We found single vessel disease -14, double vessels disease -17 and triple vessels disease -13,

## Results

Out of 44 patients, 14 patients provided with single graft, 16 patients with two grafts, 10 patients with three grafts, 2 patients with four grafts. Only Left Internal Mamary Artery (LIMA) was used in 14 Patients (%), only Saphenous Venous Graft (SVG) in 8 patients and both LIMA and SVG in 22 patients. Post operatively patients were mechanically ventilated for  $8.36 \pm 5.44$  hours. They left ICU after  $3 \pm 1$  days. All patients were discharged after  $10.64 \pm 2.89$  days. One patient had pleural effusion on 4<sup>th</sup> day and one had delayed wound healing on right leg. Mortality was zero.

## Conclusion

Off pump CABG with the use of OCTOPUS stabilizer is a safe procedure with low complication rate.