

RESUMOS DOS TEMAS LIVRES

SESSÃO DE TEMAS LIVRES VI – 28 DE MARÇO DE 2009 – SÁBADO

TL 23

OFF-PUMP CORONARY ARTERY BYPASS SURGERY BY LEFT ANTEROLATERAL THORACOTOMY VERSUS MEDIAN STERNOTOMY: A MATCHED COMPARISON

Anand RAMPERSAD, Natasha RAHAMAN, Maximo GUIDA, Walter J GOMES, Jose BURGOS-IRAZABAL, Gianni D ANGELINI

Caribbean Heart Care Medcorp. St. Clair Medical Centre, St Clair, Port of Spain, Trinidad and Eric Williams Medical Science Complex, Champs Fleurs, Trinidad - West Indies.

Objective: To compare outcomes in off-pump coronary artery bypass surgery (OPCAB) performed by left anterolateral thoracotomy and median sternotomy in patients undergoing multivessel coronary artery bypass surgery.

Methods: Fifty patients in each group were matched for age, gender, extent of coronary artery disease, diabetes, hypertension and ejection fraction. Data were obtained retrospectively from clinical notes.

Results: Preoperative characteristics were similar in the two groups (Table). There were no death or stroke. Patients undergoing sternotomy received more grafts than those undergoing left anterolateral thoracotomy ($P<0.001$). The only difference in early hospital morbidity was the need for greater transfusion in the sternotomy than the thoracotomy group ($P<0.031$). Hemoglobin levels (24 hours post-operatively) were also higher in the thoracotomy group ($P<0.001$) (Table).

Conclusion: Anterolateral thoracotomy is a safe surgical approach, and a reliable alternative to sternotomy in patients undergoing OPCAB.

TABLE (values are expressed as mean \pm SD)

Variables
Age (yrs)
Pre op Hb
Post op Hb
Units transfused
Preop creatinine
EF %
Number of grafts

Thoracotomy
57.20 \pm 7.941

13.304 ± 1.5597
11.912 ± 1.774
0.14 ± 0.452
1.174 ± 1.000
51.74 ± 13.354
2.48 ± 0.789

Sternotomy

59.28 ± 9.446
12.862 ± 1.5688
10.302 ± 1.6050
0.41 ± 0.737
1.326 ± 0.8932
54.24 ± 13.432
3.30 ± 0.789

P value

NS

NS

P<0.001

P=0.031

NS

NS

P<0.001