



Routine use of MeVis LiverAnalyzer & Mevis LiverViewer leads to cost reduction of major hepatectomies

Dionisios Vrochides¹, Achilleas Ntinis¹, Dimitrios Kardassis¹, Dimitrios Tsikaras², Panagiota Panagiotopoulou², Konstantinos Tsinoglou², Anastasios Kelekis²

(1) Center of Hepato-Pancreato-Biliary Surgery, 'Euromedica Geniki Kliniki' General Hospital, Thessaloniki, Greece

(2) Department of Diagnostic and Interventional Radiology, 'Euromedica Geniki Kliniki' General Hospital, Thessaloniki, Greece

Objectives

MeVis LiverAnalyzer & MeVis Liver Viewer (MeVis) is a software application that, among other things, allows functional volume calculation of the liver segments, based on data that derives from MDCT. It frequently leads to type or extent alteration of a planned hepatectomy.

Methods

Twenty one patients that were planned to undergo major hepatectomy were included.

Retrospective analysis of financial data was performed. All patients met one or more of the five criteria, according to our center's algorithm, for routine MeVis utilization. Estimated (before MeVis analysis) and true (after MeVis analysis) costs were studied.

Results

Out of 21 patients, six (29%) had a change in the operative plan after MeVis analysis. Routine MeVis utilization for patients that need major hepatectomy led to a cost reduction by 24% for all changed procedures (n = 6) and by 13% for all intended to change procedures (n = 21). MeVis analysis was responsible for only 4% of the cost of each separate procedure.

Conclusions

Routine use of MeVis analysis leads to cost reduction of major hepatectomies.