

Cost Effectiveness of Using a Leuko-Depleting Arterial Line Filter

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Abstract

A retrospective analysis of 350 patients undergoing open-heart surgery during a five month period was performed to evaluate the cost effectiveness of using a leukocyte-depleting arterial line filter. One hundred and twenty matched pairs were obtained where one group received the Pall Leuko-Guard (LG-6) arterial line filter and the other group received a non-leuko-depleting (NON) filter. The patients were matched for operative procedure, surgeon, bypass time and aortic crossclamp time. Differences were observed between the LG-6 group and the NON group for ventilator hours, 11.0 ± 4.1 and 15.2 ± 6.3 and postoperative days in the hospital, 8.2 ± 2.5 and 9.6 ± 4.6 , respectively. We conclude that using the LG-6 arterial line filter for adult open-heart surgery is cost effective.