

The influence of application of resorbable fibrinogen-collagen patches on the costs of selected procedures in thoracic surgery.

[Polish]

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Abstract:

The application of fibrinogen-collagen patch to air tight closure of the lung parenchyma after pulmonary surgery is profitable for the patients but relatively high price of this product may cause a surgeons hesitation before using it. The aim of the study. To compare the total costs of treatment of two subgroups of patients in whom, during the same surgical procedure, the fibrinogen-collagen patches were applicated or not to achieve air tight closure of the lung surface. Material and methods. A total costs of treatment of 122 patients were analyzed. The operations performed were as follows: bullectomy in pulmonary emphysema (n=31), decortication and empyemectomy (n=16), partial pulmonary resection with coexisting diffuse pleural adhesions (n=75). In 58 patients the surface of the lung was sutured manually or by staplers but in 64 cases fibrinogen-collagen patches were used additionally. Results. The costs of the surgical procedure were higher in the subgroup of patients in whom fibrinogen-collagen patches were applicated. However, in these patients the hospital stay was shorter and the costs of laboratory tests and x-ray examinations performed after surgery were lower in comparison with patients operated on in traditional way. Conclusion. Application of a relatively expensive product - fibrinogen-collagen patch to seal the lung parenchyma does not cause the increase of the total cost of the treatment.