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Pulmonary Tuberculosis and Venous Thromboembolism

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Context

Acute infections are among the risk factors for venous thromboembolism (VTE). The role of chronic infections such as active tuberculosis is poorly defined, although several case reports and case series have suggested a link association between tuberculosis and VTE. Respiratory infections are well known to increase the risk of venous thromboembolic (VTE) complications, comprising deep vein thrombosis (DVT) and pulmonary embolism (PE). The unexpected resurgence of tuberculosis (TB) in developed countries provided the rationale for evaluating VTE as a possible complication of TB; never the less, the topic has received little attention in the literature.

Objective

The aim of this work is to avaluate the ouset risk of venous thromboembolism in tuberculosis patients and to study the epidemiological, clinical, therapeutic and evolutionary aspects of VTE in that case.

Patient and Method

This is a prospective multicenter study done between January 2016 and January 2018. It is about 17 cases of confirmed pulmonary tuberculosis associated with deep vein thrombosis.

Result

It is about fifteen men and two women, their average age is 44, 88 years. The thromboembolic complication revealed tuberculosis among 02 patients, appearing during the hospitalization of 15 patients among which 11 of them receiving antituberculosis drug. We have listed 3 cases of immediate pulmonary embolism and 14cases of deep vein thrombosis complicated with pulmonary embolism in 7 cases. These patients received anti - tuberculosis treatment according to the 2RHZE / 4RH protocol and a curative anticoagulant treatment based on low molecular weight heparin. A relay by vitamin K antagonists was instituted after a satisfactory INR control. The average time to effective anticoagulation was 15.12 days with extremes between 08 and 50 days.

There was favorable evolution among 14 patients, 10f them was lost to follow - up. Sight and the evolution has been fatal in two case.

Conclusion

Thromboembolic disease must be sought systematically in the TB patients because of the risk of this complication particularly in extensive and severe forms. Prophylactic anticoagulation therapy finds its indications in these forms.

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