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Protein C as a marker of venous insufficiency in erysipelas of the legs

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In erysipelas we often show defects in the cutaneous barrier caused by microorganisms. In some cases, venous insufficiency (VI) may be the cause of deep venous thrombosis and delaying recovery period in erysipelas. It is important to diagnose VI at once. So we studied the native anticoagulant protein C activity for patients with erysipelas of the face and erysipelas of the legs (in some cases with the chronic venous insufficiency) in the beginning of the disease (1st week) & in the recovery period (2-3rd week of illness).

Patients were treated at the Infectious Diseases Hospital № 2 (Moscow). A total of 60 people diagnosed with «erysipelas of the face» (n = 24) and «lower limb erysipelas» (n = 36). A lighter form - erythematous EF was 52% of cases. More severe EL (hemorrhagic and erythematous-bullous-hemorrhagic) forms were in 71% of cases. The average hospital stay with EL was 11.9 + 4.1 days, with EF - 8.4 + 1.6 days. We observed positive dynamics of protein C in patients with erysipelas of the face & legs. However, in patients with erysipelas of the legs with chronic venous insufficiency it remained unchanged, despite the regression of clinical symptoms of erysipelas. When protein C in the normal range (control - 97.3 + 0.38%) the possibility for a quick recovery higher (OR = 2.89 [0.15, 55]) comparing with EL with VI. So, protein C can be used as an indicator of the risk of venous thrombosis and as a favorable prognostic indicator of erysipelas.

Biography

Elena G. Fokina completed her PhD when she was 23 at Moscow Medical Dental University and postdoctoral studies in infectious diseases based 2nd Infectious Clinical Hospital in Moscow. She is a postgraduate of Central Scientific Research Institute of Epidemiology, (Moscow, Russia). The author of the invention "Method of early prediction of the severity of diphtheria in adults" & "Human biochemical passport". She has published over 60 medical articles in Russian and foreign journals. Her research interests include infectious diseases, blood coagulation disorders, biochemistry & adaptation changes. In 2014, the European scientific community awarded Elena G. Fokina the medal "Robert Koch".

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