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INDIRECT IMMUNOFLUORESCENT ANTIBODY ASSAY FOR BARTONELLOSIS DIAGNOSTIC

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*Bartonella henselae* the causative agent of cat scratch disease (CSD) can cause a broad spectrum of syndromes in HIV-infected individuals, including: bacillary angiomatosis, peliosis hepatis, osteomyelitis, unexplained fever, bacteremia, endocarditis etc. Diagnosis of bartonellosis is a difficult enough and differentiated with Kaposi sarcoma, other tumors and infections, and is based on comparison of clinical picture and results of histological examination of biopsy material.

**Aim of the work:** development of the test system for laboratory diagnostic of bartonellosis due to indirect immunofluorescent antibody (IFA) assay by determination of antibartonellosis antibodies level in a blood serum.

**Results.** On the I phase of investigation patients with typical picture of CSD were selected by epidemiology and clinical criteria (presence of previous «traumatic» contact with a cat; presence of scratches or bites and of primary affect in 1-3 weeks after «traumatic» contact; development of regional lymphadenopathy in 1-6 weeks after cat scratch; moderate painfulness of the attracted lymphatic nodes; protracted maintenance of lymphadenitis; moderate intoxication). From selected patients 7 strains of *Bartonella* spp. were obtained due to bacteriological methods. On the II phase strain-producer of bartonellosis antigens (ЖНМИЗ 06у054) was selected, as a result of “produceability” and level of specific antigen activity study of the selected strains-candidates of *B. henselae* and comparing to the reference strain of *B. henselae* CCUG 30454 (University of Göteborg, Sweden). On the III phase experimental approbation of IFA was conducted on 24 types of diagnostic homology and heterologous to *B. henselae* antiserum and immunoglobulins and on 14 blood serum samples from patients on CSD and 40 blood serum samples from donors.

**Conclusions.** Developed indirect antibody IFA for bartonellosis diagnostic provides sensiveness level – (0,2±0,03) mg anti*Bartonella* Ig/ml, (91±4) % specificity and (95±5) % reproduction of test.