## THE SIGNIFICANCE OF DETECTION OF CIRCULATING ANTIGEN IN THE DIAGNOSIS OF TOXOPLASMA INFECTIONS

A. Haßl, H. Auer, and H. Aspöck

Dept. of Medical Parasitology Institute of Hygiene A-1095 Vienna . Austria

Circulating antigen of Toxoplasma gondii (cag) has proved to be a diagnostic marker for acute Toxoplasma infections, the detection of cag is therefore used as an important diagnostic tool for the uncovering of toxoplasmosis in patients with AIDS. Attempts were, however, also made to adapt this serological method for the detection of a primary infection with Toxoplasma gondii in pregnant women within the framework of the Austrian toxoplasmosis screening.

121 serum samples of 87 pregnant women with serologically confirmed acute infections and about 10 000 sera of women with different toxoplasmosis status were tested for cag in a four-layer enzyme-linked immunosorbent assay. In 7 sera (5.8%) of the group with acute infections and in 12 sera (0.12%) of the other group an antigenemia was detected. In all sera the antigenemia coincided with high titres of specific antibodies. Evaluation of all available serological results led to the conclusion that the infection of all women with an antigenemia had occured 2 to 4 months before testing.

Thus, the detection of cag in a non-immunodeficient person indicates an advanced period of an acute infection; for the detection of the early phase of a Toxoplasma infection the combined application of different tests basing on antibody titration is, however, apparently sufficient.