

ANTICARDIOLIPIN ANTIBODIES IN VIRAL HEPATITIS

Kr. Nikolov¹, M. Baleva¹, H. Boyadjian², I. Angelov², G. Gancheva²,
J. Obretenova², P. Tzvetkova², H. Hristov² and N. Georgiev²

¹Higher Medical Institute – Sofia, Laboratory of Immunology

²Medical Institute – Pleven, Department of Infectious Diseases and Epidemiology

Summary. This is a report on the results of a study of cardiolipin antibodies (aCLA) in random by selected patients with viral hepatitis (VH), n=96 and erysipelas (ER), n=30. aCLA were measured by enzyme-linked-immunosorbent assay (ELISA). The results were expressed in optical density (OD), and compared to 33 healthy subjects. Reference values – mean \pm 2SD = 0.172 ± 0.07 OD. Parallel researches of the following variables were performed: serum ALAT and ASAT activity, serum bilirubin etc. On admission to the hospital and on discharge 58% and 60% of the patients with VH respectively, had aCLA above the normal range ($x \pm SD = 0.410 \pm 0.283$ OD, $p < 0.001$, and 0.467 ± 0.367 OD), $p < 0.001$, versus the normal subjects and ER patients (0.286 ± 0.126) without significant difference between the values on admission and on discharge. The clinical course and severity of VH was not related to the aCLA level. No thromboembolic events were recorded in our VH patients. A precise pathogenetic mechanism for the increase of aCLA cannot be indentified.

Key words: autoantibodies/metabolism; hepatitis/immunology

INTRODUCTION

Recently, the interest in anticardiolipin antibodies (aCLA) has increased considerably subsequent to the recognition of their association with thromboembolic events, neurological diseases, spontaneous abortions, etc [4, 22].

Cardiolipin is a negatively charged phospholipid. Phospholipids are the major constituent of the membrane cell. They include phosphatidyl serine, cardiolipin, phosphatidyl ethanol amine, etc. Cardiolipin is a component of the inner mitochondrial membrane, and a constituent of endothelial cell membranes, platelets and brain tissue [20]. aCLA belong to the large family of antiphospholipid antibodies which are autoantibodies produced by the human immune system, as a response to an altered membrane phospholipid secondary to damages, such as viral infections [9], drugs [16], tumor necrosing factor [19] etc. Antiphospholipid antibodies

CONTENTS

K. Vangelova and Chr. Deyanov. Serum lipids and cardiovascular risk in workers exposed to convection overheat	3
Kr. Nikolov, M. Baleva, H. Boyadjian, I. Angelov, G. Gancheva, J. Obretenova, P. Tzvetkova, H. Hristov and N. Georgiev. Anticardiolipin antibodies in viral hepatitis	8
D. Popova and D. Traykov. Relationship of uric acid to some cardiovascular risk factors in obese hyperuricemic men	15
R. Tzekov, V. Tanev and O. Asparukhov. Diagnostic possibilities of electroretinogphy parameters in diabetic retinopathy patients	21
H. Boyadjian, M. Baleva, K. Nikolov, P. Tzvetkova, H. Hristov, J. Obretenova, I. Angelov and G. Gancheva. Studies on complement c3 and c4 in acute viral hepatitis and erysipelas	29
K. Yankov, V. Maximov, Zh. Georgieva and S. Balev. Diagnostic value of some immune indicators in pneumonia patients	36
K. Yankov, V. Maximov, V. Kaludova and V. Radanova. The role of routine microbial assessment in pneumonia patients	41
R. Stanislavov. Sperm banking	49
G. Oncheva and S. Novachkova. Sympathetic cutaneous response (SCR) in cervical radiculopathies.....	50
M. Rasheva, M. Daskalov and T. Yankov. Chronic tic disorders - clinical phenomenology and eeg characteristics	57
T. Yosifov and T. Dimitrov. The effect of mesocarb-nivalin combination on the structure of sleep in cats	65
Y. Vazharov. „Yavotron“ – microprocessor apparatus for cryoelectrophoresis, conventional electrotherapy and electrodiagnostics	72
Dr. Iv. Bossnev. Medical journalism	76

ACTA MEDICA BULGARICA, VOL. 26/1999

Editor in chief: *prof. D. Djerov*, MD, Dr. Sci. Med.

Translated by: *K. Melixetian*

Editor of the English text: *prof. St. Danev*, MD, Dr. Sci. Med.

Editor of the Bulgarian text: *prof. V. Bosnev*, MD, Dr. Sci. Med.

Scientific Secretary: *prof. K. Tzachev*

Assistant Secretary: *M. Dimitrova*

Art editor and computer design: *D. Alexandrova*

Technical editor: *R. Gramaticova*

Proof reader: *St. Danev*

Publisher's sheets: 7

Printer's sheets: 5.25

Format: 70 x 100/16

Edited by the Medical Information Centre

MEDICAL UNIVERSITY - SOFIA

ACTA MEDICA
BULGARICA

amb

1999
6661

vol. XXVI



Medical Information Centre