

# **TRENDS IN THE DEVELOPMENT OF QUALITY TRAINING OF FUTURE SPECIALISTS**

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## THE FEATURES OF LIPID ABERRATION IN HYPERTENSIVE PATIENTS

**Buriak Viktor**

Ph.D., Associate Professor  
Zaporizhzhia State Medical-Pharmacy University

**Tokarenko Oleksandr**

D.Sc., Professor  
Zaporizhzhia State Medical-Pharmacy University

**Tokarenko Oleksandr**

Ph.D., Assistant Professor  
Zaporizhzhia State Medical-Pharmacy University

**Sholokh Serhii**

Ph.D., Assistant Professor  
Zaporizhzhia State Medical-Pharmacy University

**Hlavatskyi Oleksandr**

Ph.D., Associate Professor  
Zaporizhzhia State Medical-Pharmacy University

Arterial hypertension is the cardiovascular pathology because of atherosclerosis, associated with one of the most severe risk factor – dyslipidemia, the study of which will contribute to the optimization of the cardiovascular continuum [1-19].

The aim of the study was to analyze the clinical characteristic of lipid spectrum components and their cross-correlation in hypertensive patients.

There were examined 193 male and 139 female hypertensive patients (medium systemic blood pressure level was  $141,19 \pm 1,3$  [138,65; 143,74] /  $87,79 \pm 0,78$  [86,26; 89,33] mmHg, age and anamnesis duration were  $55,57 \pm 0,7$  [54,2; 56,94] years and  $6,53 \pm 0,47$  [5,61; 7,46] years accordingly. The lipid spectrum components were assessed via automatic clinical biochemical analyzer.

The medium fasting range of total cholesterol, high, low and very low density lipoproteins, triglycerides and indices of atherogenicity was  $5,2 \pm 0,08$  [5,05; 5,35] mmol/L,  $1,31 \pm 0,02$  [1,26; 1,36] mmol/L,  $3,05 \pm 0,07$  [2,91; 3,18] mmol/L,  $0,84 \pm 0,03$  [0,78; 0,89] mmol/L,  $1,84 \pm 0,07$  [1,71; 1,97] mmol/L and  $3,26 \pm 0,08$  [3,1; 3,42] units respectively. Based on statistical analysis there were defined correlations between next parameters: total cholesterol and low density lipoproteins ( $r = 0,92$ ,  $p < 0,001$ ), very low density lipoproteins and triglycerides ( $r = 0,99$ ,  $p < 0,001$ ), indices of atherogenicity and high ( $r = -0,59$ ,  $p < 0,05$ ), low ( $r = 0,58$ ,  $p < 0,05$ ), very low density lipoproteins ( $r = 0,59$ ,  $p < 0,05$ ), triglycerides ( $r = 0,59$ ,  $p < 0,05$ ) as well, systolic and diastolic blood pressure ( $r = 0,69$ ,  $P < 0,001$ ).

Conclusions: 1. There are no found any statistically reliable correlations between lipid spectrum components and age, duration of hypertension, systemic blood pressure level too in hypertensive patients. 2. In hypertensive population the positive correlations between total cholesterol and low density lipoproteins, very low density lipoproteins and triglycerides are the most significant as well as systemic blood pressure level parameters. 3. Indices of atherogenicity level equally depends on both pro- and antiatherogenic lipid spectrum components in subjects with partially controlled hypertension.

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