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ПРИСВЯЧЕНОЇ ДНЮ НАУКИ

**«ДОСЯГНЕННЯ ПРОФІЛАКТИЧНОЇ МЕДИЦИНИ ЯК ОСНОВА
ЗБЕРЕЖЕННЯ ЗДОРОВ'Я І БЛАГОПОЛУЧЧЯ»**

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THE CONTENTS OF VITAMIN D AND ANTIMICROBIAL PEPTIDES WITH ACUTE INFLAMMATORY BACTERIAL DISEASES OF THE BRONCHOPULMONARY SYSTEM IN CHILDREN OF EARLY AGE

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The purpose: to determine the content of vitamin D and antimicrobial peptides in blood serum with acute inflammatory bacterial diseases of a bronchopulmonary system in children of early age.

Under observation there were 67 patients aged from 1 month up to 3 years (average age of $1,6 \pm 0,1$ years), with acute inflammatory bacterial diseases among which there are 46 children with acute bacterial bronchitis and 21 children with an acute pneumonia. Verification of the diagnosis was carried out by means of laboratory and instrumental methods of a research, agrees acting with clinical protocols. Determination of content of vitamin D, a cathelicidin and $\beta 1$ -defensins in blood serum was carried out with use of the commercial OSTEIA 25-HydroxyVitamin D and LL37 sets (Human, ELISA) and Defensin Beta 1 (Elisa) respectively. The group of control was made by 17 children representative on age. Statistical data were presented in the form of Me (Q25; Q75) taking into account distribution which differed from normal. Reliability estimated with the help Mann-Whitney's U-criterion for independent selections.

Results of a research. By results of a research reliable decrease in content in blood serum of children of group research of vitamin D in comparison with control group was established ($82,0(58,0;74,0)$ nmol/ml against $100,0(90,0;120,0)$ nmol/ml respectively, $p < 0,05$). The maintenance of a cathelicidin in blood serum was reliable below in relation to values of control group ($0,08(0,05;0,10)$ ng/ml against $0,20(0,20;0,30)$ ng/ml respectively $p < 0,01$). The tendency to decrease in contents $\beta 1$ -defensins in blood serum of children of group research - $85(56;130)$ pg/ml and $90(78;160)$ pg/ml in group of control is established ($p < 0,05$). Interrelation of influence of vitamin D on products of antimicrobial peptides it was confirmed with existence of authentically significant direct correlation dependence between vitamin D content in blood serum and the level of antimicrobial peptides ($r = 0,9$, $p < 0,01$ and $r = 0,7$, $p < 0,05$, respectively).

Conclusions. Development of acute inflammatory bacterial diseases of a bronchopulmonary system in children of early age happens against the background of deficiency of vitamin D which occupies an important role in thin balance between protective immunity and an immunopathology. The imbalance in the system of synthesis of antimicrobial peptides associated with insufficiency of vitamin D leads to decrease in immunoreactivity of an epithelium of respiratory tracts that in turn leads to massive colonization by bacterial pathogens.

THE INTENSITY IN THE PATHOGENESIS OF THE MUTUAL BURDEN OF NON-ALCOHOLIC FATTY LIVER DISEASE AND CHRONIC KIDNEY DISEASE WITH OBESITY	
<i>Antoniv A. A.</i>	73
ENDOTHELIAL LIPASE IN DIAGNOSTIC OF NON-ALCOHOLIC FATTY LIVER DISEASE WITH HYPERTENSION	
<i>Bashkistrova A., Lapshyna K.</i>	74
PATHOGENETIC ROLE OF NITROTYROSINE IN DEVELOPMENT DIABETIC MYOPATHY IN CHILDREN.	
<i>Chudova N.I.</i>	75
THE EFFECT OF TAKING NITRO-CONTAINING DRUGS HAS AN EFFECT ON THE EFFECTIVENESS OF TREATMENT OF GASTROESOPHAGEAL REFLUX DISEASE IN PATIENTS WITH STABLE ANGINA OF TENSION UNDER CONDITIONS OF COMORBIDITY.	
<i>Drozhd V.Yu., Khukhlina O.S., Antoniv A.A.</i>	76
THE EMERGENCE OF NEGATIVE CARDIOVASCULAR EVENTS IN PATIENTS WITH STABLE ANGINA PECTORIS AND GASTROESOPHAGEAL REFLUX DISEASE DURING ESOPHAGOGASTRODUODENOSCOPY	
<i>Drozhd V.Yu., Khukhlina O.S., Antoniv A.A.</i>	77
BISOPROLOL INFLUENCE ON THE ADVERSE OUTCOMES IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION DEPENDING ON THE sST2 LEVEL	
<i>Hilova Y.V., Rodionova J.V., Kutya I.N.</i>	78
CLINICAL DIAGNOSIS OF ACUTE TONSILLOPHARYNGITIS IN CHILDREN	
<i>Horbatiuk I.B., Burdeyna Yu.M.</i>	79
THE CONTENTS OF VITAMIN D AND ANTIMICROBIAL PEPTIDES WITH ACUTE INFLAMMATORY BACTERIAL DISEASES OF THE BRONCHOPULMONARY SYSTEM IN CHILDREN OF EARLY AGE	
<i>Kraynya H.V.</i>	80
SURGICAL TREATMENT OF POSTTRAUMATIC DEFORMATIONS OF THE PROXIMAL FEMUR	
<i>Lisunov M.S., Kozhemiaka M.O., Bohdan O.V.</i>	81
INHIBITORS OF THE RENIN-ANGIOTENSIN SYSTEM IN DIABETIC PATIENTS WITH HEART FAILURE WITH PRESERVED EJECTION FRACTION TREATMENT: IMPACT OF M235T POLYMORPHISM OF ATG.	
<i>Medentseva O.O., Rudyk I.S., Babichev D.P., Lozyk T.V.</i>	82
THE PECULIARITIES OF THE CORRECTION OF EATING IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE DEPENDING ON THE POLYMORPHISMS OF THE PPARG2 AND ADRB2 GENES	
<i>Nikiforova Ya.V.</i>	83
ASSOCIATION BETWEEN VASCULAR ENDOTHELIAL GROWTH FACTOR LEVEL AND GLYCEMIC CONTROL IN PATIENTS WITH CORONARY HEART DISEASE AND TYPE 2 DIABETES MELLITUS	
<i>Ovrakh T.</i>	84
INDICATORS OF NITROSATIVE STRESS IN INFANTS WITH ACUTE BACTERIAL DISEASES OF RESPIRATORY ORGANS	
<i>Pogribna A.O.</i>	85
DYNAMIC PARAMETERS OF NONSPECIFIC HYPERSUSCEPTIBILITY OF THE BRONCHI IN TEENAGERS WITH BRONCHIAL ASTHMA	
<i>Shakhova O.O.</i>	86