



Ministry Public Health of Ukraine

DONETSK National Medical University named after M. GORKY

Specialized Scientific Council D 11.600.05

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## REPORT

ON SPECIALIZED SCIENTIFIC COUNCIL Д 11.600.05

In Donetsk National Medical University

named after Gorky in 2011

1. By Order of Ukrainian HAC № 869 from December 22, 2009 Specialized Academic Council are entitled to defend thesis by: 01/14/02. - Internal medicine and 14/01/11 - cardiology (medical sciences) until 31 December 2012.
2. During the reporting period specialized academic council have held 11 meetings, which conducted 18 candidate theses and 1 PhD thesis (8 - by specialty 14.01.02 - internal medicine and 11 –by specialty 14.01.11 - cardiology). 2 dissertations were presented in Russian and 17 in Ukrainian languages). There were no collective reviews, one-time protections, recertifications and appeals considered,.
3. During the period, there were no rejected theses.

4. There were no members of the Specialized Scientific Council, who attended less than half the meetings.

5. In 2011 the specialized scientific council D 11.600.05 considered the following theses:

for the degree of Candidate of Medical Sciences:

- by specialty 14.01.02 - internal medicine:

**Tomina O. Clinical significance of heart rate variability, types of orthostatic reaction and circadian profile of blood pressure in hypertension, comorbid with peptic ulcer disease. –Manuscript.**

Candidate's thesis on speciality 14.01.02 – internal diseases. – Donetsk National Medical University named after M. Gor'kogo Ministry of Public Health Ukraine, Donetsk, 2011.

Dissertation is devoted to determination of clinical significance of heart rate variability (HRV), the types of orthostatic reaction (OR) and circadian profile (CP) of blood pressure (BP) in control efficiency of hypertension (H), comorbid with peptic ulcer (PU).

It has been established that in H comorbid with PU, the total power of HRV spectrum has decreased and sympathovagal balance has shifted towards the regulation of the sympathetic link even more than in isolated H. It is characterized by loss of autonomic regulation in provocative tests, which manifests itself by an increase of the total power spectrum in response to orthostatic and a reduction in sympathetic balance during the test with metronomized breath. It has been found out that in H, comorbid with PU, there are three types of all OR of BP with a prevalence of hypertension type, both systolic (51%) and diastolic (78%) BP, there are all four types of CP of diastolic BP with a prevalence of optimal type (60% dipper ) and three types of CP of systolic BP with the prevalence of pathological types (45% non-dipper, 15% night-peaker). In the course of antihypertensive therapy in a standard scheme for H, the overall power HRV has been decreased and autonomic regulation in OR haven't emerged, it has been marked the transition from a favorable (hypertensive) OR type of BP to the unfavorable (isotensive). In this case, in target BP in subgroups with isotensive, hypertensive OR types of BP and non-dipper , night-peaker CP of systolic BP and night-peaker CP of diastolic BP the achievement of target figures have been gained later and it required more intensive therapy. Prognostic important and significant parameters in monitoring the efficiency of BP in patients with H, comorbid with PU is total power of HRV and, the most, – sympathovagal balance.

Захист відбувся 20 травня 2011 року, протокол №11. Роботу затверджено Департаментом атестації кадрів Міністерства освіти і науки молоді та спорту України.

**Soldatenko I.V. Effectiveness of control of comorbid with osteoarthritis arterial hypertension depending on the type of orthostatic reactions and circadian profiles of blood pressure. – The Manuscript.**

It is candidate's thesis on speciality 14.01.02 – internal diseases. – Donetsk National Medical University name after M. Gor'kogo Ministry of Public Health Ukraine, Donetsk, 2011. Dissertation is devoted to the studies the effectiveness of comorbid osteoarthritis with arterial hypertension control depending on the type of orthostatic reactions and circadian profiles of blood pressure.

The occurrence clinical peculiarities, heart rate variability and effectiveness of comorbid osteoarthritis with arterial hypertension control considering types of orthostatic responses and circadian profiles of blood pressure. Revealed that in patients with comorbid osteoarthritis with arterial hypertension were observed all of three types of systolic and diastolic blood pressure orthostatic reactions with the prevalence of hypertensive, and all of four types of diurnal profiles – with a prevalence of non-dipper on systolic blood pressure and dipper for diastolic. Revealed migration regularities of blood pressure orthostatic reactions in patients with comorbid osteoarthritis with arterial hypertension on the stages of therapy and determined that migration of systolic blood pressure was higher into the hypertensive type, diastolic – into hypotensive. Determined that comorbid with arterial hypertension osteoarthritis had no effect on baseline indexes of heart rate variability, but affected the reactions on orthostasis.

In the management of patients should be taken into account the fact that in hypotensive and isotensivof orthostatic reactions, dipper and night-peaker circadian profiles of systolic blood pressure and night-peaker profiles of diastolic blood pressure - require more intensive antihypertensive therapy.

In studied clinical signs and heart rate variability indexes statistically significant criteria of arterial hypertension comorbid with osteoarthritis efficacy control were patients age and sympatho-vagal balance ratio.

Protection took place on May 20, 2011, protocol number 11. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Balantsova E. L. Features of pathogenesis, diagnosis and treatment of erosive-ulcerous lesions of gastroduodenal zone in patients with chronic pancreatitis with excessive body mass. — Manuscript.**

The dissertation submitted for the candidate of sciences (medicine) in speciality 14.01.02 — internal diseases — Donetsk National Medical University named after M. Gorky. Ministry of public health of Ukraine, Donetsk, 2011.

Research of the problem of treatment efficacy in patients with chronic pancreatitis combined with erosive-ulcerous lesions of gastroduodenal zone on background of overweight. According to survey 136 patients with clinical signs of the peculiarities connected disease assessed endoscopic picture of gastric and duodenal ulcers, gastric acid productive function, functional status and sonographic changes of the pancreas, the frequency of infection with different serotypes of *Helicobacter pylori*. It is proved that the course has combined features of diseases depending on the prevailing etiopathogenetic variant of erosive-ulcerous lesions of gastroduodenal zone (infection of *Helicobacter pylori*, reduction in production of pancreatic bicarbonates, receiving non steroid anti-inflammatory drugs).

Enabling to treatment rebamipid, gastromaks, erbisol significantly increased the effectiveness of therapy: clinical signs were decreased, functional status of pancreas was improved, also the ultrasound histography indicators, the results of endoscopy and course of combined diseases were improved.

Protection took place on June 16, 2011, protocol number 14. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Mandryka L.Yu. Nonalcoholic steatohepatitis in patients with diabetes mellitus of the type 2: pathogenetic mechanisms and treatment optimization with application of natural and preformed physical factors of the resort «Myrhorod». - Manuscript.**

Thesis for the degree of Candidate of Medical Sciences, specialty 14.01.02 - Internal Diseases. – Donetsk State Medical University named after M. Gorky Ministry of Public Health of Ukraine, Donetsk, 2011.

The thesis is devoted to studying the main pathogenetical mechanisms of coburden influence of nonalcoholic steatohepatitis and diabetes mellitus of the type 2 and development of adequate methods of correction at the following of medicinal approaches and sanatorium-resort treatment with the use of natural and preformed physical factors of the resort «Myrhorod». The

efficiency of the combined prescription of  $\alpha$ -lipoic acid, essential phospholipids and complex sanatorium-resort treatment with including of natural and preformed physical facilities (singlet-oxygen and magnetolazeroultrasonic therapy) with the purpose of patients treatment with nonalcoholic steatohepatitis in combination with diabetes mellitus of type 2 was proved, the remote results of the conducted therapy were appraised.

Protection took place on October 31, 2011, protocol number 24. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Sovpel I. V. Clinical and the pathogenetic significancy of changes of air conditioning, moisture exudation, surfactant systems and diffusive power of lungs in patients with systemic scleroderma. – Manuscript.**

Dissertation on science degree competition of Ph.D. in medical science on speciality 14.01.02 – internal diseases. – M.Gorky Donetsk National Medical University. Health Ministry of Ukraine, Donetsk, 2011.

Dissertation is devoted to the study of defeats and changes in lungs functions in patients with systemic scleroderma (SSD). In dissertation theoretical generalization of results is presented and the decision of scientific problem is attained by clinical and instrumental examination (spirometry, echocardiography, bodypneumography, interphase tensorheography of expirates) of 57 women in the age from 18 to 67 years with SSD, estimations of the air conditioning state (respiratory volumes, parameters of bronchus patency, intrapulmonary hemodynamics), air-conditioning state (speed and volume of respirator moisture exudation), surfactant-synthetic state (surface-tension, viscoelasticity and relaxation of expirates) and diffusing lung capacity, quality of sclerodermic pneumopathy diagnostics is raised, special guides are developed, which allow to prognosticate the pathological process course and the efficiency of therapeutic arrangements.

Protection took place on November 1, 2011, protocol number 26. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Maltsev S. V. Left ventricular remodelling in patients with coronary heart disease and type 2 diabetes mellitus. – The manuscript.**

Thesis is applied for Candidate of Medical Sciences degree, speciality 14.01.02 – internal medicine. – Donetsk National Medical University named after M. Gorkiy, Ministry of Public Health of Ukraine, Donetsk, 2011.

Thesis is devoted to investigate and increase the efficacy of prognostic decision making and prevention of left ventricular remodelling in patients with chronic coronary heart disease and type 2 diabetes mellitus. In this category of patients predictive criteria of the development of left ventricle structure and function abnormalities were established, including: patients age more than 60 years, duration of diabetes over 7 years, glycated hemoglobin levels more than 6,5%, previous myocardial infarction, presence of microalbuminuria, anemia, reduced glomerular filtration, levels of NT-proBNP more than 1000 fmol/ml and/or TIMP-1 over 110 ng/ml. It was found that in patients with chronic coronary heart disease and type 2 diabetes cardioprotective therapy, which included losartan and valsartan or angiotensin-converting enzyme inhibitors, reduced the risk of left ventricular remodeling. Factors that determine the effectiveness of this treatment were stated: absence of previous myocardial infarction, initial dilation and/or systolic left ventricular dysfunction; levels NT-proBNP and TIMP-1 above boundary and use losartan and valsartan at least ½ of the target maintaining doses.

Protection took place on November 11, 2011, protocol number 23. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Nechypurenko T.B. Clinical and immunological description and methods of pharmacological correction of hypertension disease in patients with hepatic and biliary tract disorders. – The manuscript.**

Dissertation for Candidate of Medical Science degree by speciality 14.01.02 – Internal diseases. – Donetsk National Medical University of Ministry of Health of Ukraine, Donetsk, 2011.

Dissertation is devoted the efficiency of management of hypertensive disease on the basis of inflammation at hypertensive disease on a background the concomitant diseases of organs of the hepar and billiary system. A complex inspection is conducted 194 patients of HD: 60 patients of HD without concomitant pathology, 66 with HD in combination with functional disorders of gall-bladder and 68 patients with HD in combination with chronic hepatitis. Elevation of CRP, TNF- $\alpha$ , interleukine - 1, - 6 was determined that reflect inflammatory hyper activation. Advantages of therapy by fosinopril for patients with chronic hepatitis and by nebivolol for patients with functional disorders of gall-bladder were shown.

Protection took place on November 11, 2011, protocol number 25. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Smirnova Y. Peculiarities of clinical picture, course and treatment of patients with rheumatic mitral valvular disease with concomitant chronic obstructive pulmonary disease. – Manuscript.**

The dissertation for obtaining the Candidate's degree in speciality 14.01.02 – internal diseases. – Donetsk national medical university by M. Gorky Ministry of Public Health of Ukraine, Donetsk, 2010.

The dissertation is devoted to improvement of diagnosis and optimization treatment and life quality of patients with rheumatic mitral valvular disease with concomitant chronic obstructive pulmonary disease.

The appropriateness of liposome drugs administration and its effectiveness in complex cardiorespiratory pathology was substantiated. Peculiarities of clinical picture and course of rheumatic mitral valvular disease in patients with concomitant chronic obstructive pulmonary disease were demonstrated. Electrocardiographic, echocardiographic, radiographic and functional disorders were determined. It was shown that liposome agents in complex treatment of patients with cardiorespiratory pathology lead to reduction of supraventricular and ventricular extrasystoles, ventricular hypertrophy, left heart and right atrium dilatation, diffuse myocardial changes, diastolic dysfunction, systolic pulmonary artery pressure, sympathetic hyperactivity, venous lung hypertension; arterial pressure optimization; increasing of left ventricle systolic function, frequency of dipper-type of arterial pressure variability; improvement of external respiration characteristics and diffusion lung capacity; increasing of treatment efficiency and patient's life quality.

Protection took place on June 17, 2011, protocol number 15. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

by specialty 14.01.11 - Cardiology:

**Anikeeva T.V. Relationship of ischemic heart disease and atherosclerotic lesions of extracardiac arteries: clinical features, pathogenesis and treatment. -The Manuscript.**

A dissertation submitted for the Doctor of Sciences (Medicine) Degree in specialty 14.01.11 – cardiology. Donetsk National Medical University n.a. M.Gorkiy of HM of Ukraine, Donetsk, 2011.

The thesis is dedicated to improving of diagnosis, treatment optimization and increase of survival for patients with ischemic heart disease complicated by atherosclerotic lesions of extracardiac arteries. Proven clinical and pathogenetic link between ischemic heart disease and atherosclerotic lesions of extracardiac vessels and studied the dependence of the affected segment branches of the coronary arteries, functional class of angina and heart failure, localization of myocardial infarction, blood pressure, disorders of excitability of the myocardium, the electrical conductivity of the heart, fibrosis of its valvular , surface area, systolic-diastolic left ventricular function, status and endothelium-independent vasodilation, peripheral vascular resistance on the degree of stenosis of one or other extracardiac vessels. Defined the role of the metabolic syndrome, its frequency for patients with ischemic heart disease, set the character of the interdependence of the individual components of metabolic syndrome and severity of atherosclerotic peripheral vascular disease, the level of its influence on the state of vascular reactivity, aortic stenosis, coronary, carotid, iliac, femoral, popliteal, tibial, subclavian, renal and vertebral arteries. Proved the role of disturbances of lipid peroxidation, antioxidant, endothelial function, blood rheology and microelement status in the development of a comorbidity. Rated the efficiency of treatment, the extent of it's individual clinical signs of disease and medication groups, the parameters of the metabolic syndrome, lipid peroxidation, antioxidant protection, endothelial function, blood rheology and microelement status, defined prognostic criteria. Improved therapeutic technique of treatment of patients with ischemic heart disease depending on the vascular reactivity, the degree of atherosclerotic disease of the central and peripheral arteries.

Protection took place April 21, 2011, protocol number 9. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Vorobyov A. S. Role of biological cardiac markers in prognostication of left ventricular remodeling in patients having Q-wave myocardial infarction. – The manuscript.**

Thesis to apply for Candidate of Medical Sciences degree, speciality 14.01.11 – cardiology. – Donetsk National Medical University named after M. Gorkiy, Ministry of Public Health of Ukraine, Donetsk, 2011.



Thesis is dedicated to the problem of efficiency enhancement of prognostication and prevention of left ventricular remodeling development in patients having Q-wave myocardial infarction. There is firstly demonstrated association of postinfarction left ventricular remodeling development and serum concentration of N-terminal fragment of B-type natriuretic peptide precursor – NT-proBNP and tissue inhibitor of metalloproteinase-1 – TIMP-1 in this category of patients. It is shown that NT-proBNP and TIMP-1 serum levels exceeding their established cut-off values in acute myocardial infarction significantly increase risk of left ventricular remodeling development in postinfarction period. Possibility to reduce the risk of left ventricular remodeling development in postinfarction patients using reperfusion therapy in the acute phase of myocardial infarction and administering high-dose atorvastatin and aldosterone receptor blockers within long-term basic therapy is presented.

Protection took place April 21, 2011, protocol number 10. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Babanina T.V. Left ventricular remodeling prevention in patients suffered from Q-wave myocardial infarction by blocking of renin-angiotensin-aldosterone system.– The manuscript.**

Thesis to apply for Candidate of Medical Sciences degree, speciality 14.01.11 – cardiology. – Donetsk National Medical University named after M. Gorkiy, Ministry of Public Health of Ukraine, Donetsk, 2010.

The thesis is dedicated to improving of prediction and prevention of left ventricular remodeling in patients suffered from Q-wave myocardial infarction. Close relation between the level of matrix metalloproteinase 2 (as a marker of collagen matrix degradation) in the early period of myocardial infarction and the development of postinfarction left ventricular remodeling was obtained. It was noted that individuals with levels of matrix metalloproteinase 2 more than 460 ng/ml in acute phase of myocardial infarction, and those had increased levels of matrix metalloproteinase 2 thereafter, as well as those who did not show significant decrease such levels in 12 month, showed a higher incidence of postinfarction left ventricular remodeling.

According to the findings of the study, use of lipophilic angiotensin-converting enzyme inhibitors – perindopril or ramipril (especially for patients with high levels of matrix metalloproteinase 2), in doses not less than ½ of target doses and aldosterone antagonists (spironolactone or eplerenone) in the target (25-50 mg/day) doses may decrease the risk of left ventricular remodeling in patients after myocardial infarction.

Protection took place June 16, 2011, protocol number 13. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Rakitov B. Interval normobaric hypoxytherapy administration in complex treatment of patients with microvascular angina. – Manuscript.**

The dissertation for obtaining the Candidate's degree in speciality 14.01.11 – cardiology. – Donetsk national medical university by M. Gorky Ministry of Public Health of Ukraine, Donetsk, 2011.

The dissertation is devoted to investigation pathogenetic mechanisms of disease formation, diagnosing, treatment optimization and life quality improvement of patients with microvascular angina.

In the research it was determined one of the bad studied pathogenetic mechanisms of microvascular angina pathogenesis, it is devoted to nitrogen oxide synthesis. The pathogenetic role of endothelial dysfunction in development of microvascular angina was established. The author determined incidence of disease between patients with coronary heart disease and cardialgia; peculiarities of clinical course and morpho-functional changes of cardiorespiratory system, lipometabolism, oxidant – antioxidant balance, thrombocyte aggregation and endothelial vessel function. On the ground of the findings it was substantiated and proved effectiveness and positive influence of interval normobaric hypoxytherapy on patient's life quality.

Protection took place June 17, 2011, protocol number 16. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Kravchenko T.V. Differential approach and evaluation of efficacy for cure patients with right atrial flutter after cardiac surgery – The Manuscript.**

The thesis is presented to be awarded the Degree of Candidate of Medicine on specialism 14.01.11 – Cardiology. – M. Gorkiy's Donetsk National Medical University Ministry of Public Health Ukraine, Donetsk, 2011.

The Dissertation is presents two different approaches for cure right atrial flutter after open-heart surgery. Long standing tachycardias contribute to the appearance of heart failure, embolic events and death. All of 50 patients took the basic drug therapy. The patients of the 1-st group also took anti-arrhythmic drugs. The patients of the 2-d group were operated on.

The catheter radiofrequency ablation was performed for the elimination of right atrial flutter. The invasive approach had some advantages. Right atrial flutter was prevented for only 23% of patients taking drugs therapy. However, catheter radiofrequency ablation was effective for all of them. The presence of atrial flutter caused atrial fibrillation. When right atrial flutter disappeared, the haemodynamic indexes improved statistically. Significant improvement were observed in the left ventricular diameter and volume, ejection fraction and functional class (NYHA). The drugs therapy improved only functional class, mitral regurgitation, tricuspid regurgitation, right atrial size at the follow-up. The evaluation degree of tricuspid regurgitation was documented statistically better in the 2-d group.

The most frequent localizations of tachycardia circuit were found. Linear cavo-tricuspid isthmus ablation is not enough for the elimination of all tachycardia circuits for most cases. The effectiveness of different anti-arrhythmic agents for cure atrial flutter was determined.

Protection took place July 4, 2011, protocol number 17. The work was approved by the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Mohamed Ikbal. Air-conditioning function of respiratory tract in patients with ischemic heart disease. - Manuscript.**

Dissertation on science degree competition of Ph.D. in medical science on speciality 14.01.11 - cardiology. - M.Gorky Donetsk National Medical University Health Ministry of Ukraine, Donetsk, 2011.

Dissertation is devoted to the problem of cardiology, where theoretical generalization of results is presented and the decision of scientific problem is attained by virtue of examination of patients with ischemic heart disease (respirator and alveolar pneumothermometry, pneumocalorimetry, speed and volume of respirator moisture exudation, interphase tensorheography of expirates with estimation of surface-tension, viscoelasticity and relaxation, spirometry and echocardiography with determination of pulmonary artery pressure and pulmonary vascular resistance), the clinical and the pathogenetic significance of respiratory tract air-conditioning function damage at different variants of disease state is proved, quality of respirator disorders diagnostics is raised, special guides are developed, which allow to prognosticate the pathological process course and the efficiency of therapeutic arrangements.

Protection took place September 21, 2011, protocol number 18. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Yakovlenko O. V. Rehabilitation of patients with ischemic heart disease and erectile dysfunction. - The manuscript.**

Dissertation for scientific degree of Candidate of Medical Sciences by speciality 14.01.11 – cardiology. – Donetsk National Medical University n.a. Gorky MHP of Ukraine, Donetsk, 2011.

The dissertation is devoted to the decision of scientific task – on the basis of study of interaction between the flow of ischemic heart disease and erectile dysfunction at men the efficiency of resort rehabilitation of patients was assessed, the influence on it of the electro- and ehokardiographic factors, degree of sclerosis of separate coronal arteries, components of metabolic syndrome, parameters of the lipid metabolism (general lipids, phospholipids, cholesterol, triglycerides, lipoproteids of high and low density, apolipoproteids A1 and B) and endothelial function of vessels (endothelin-1, tromboxan-A2, prostacyclin, nitrites, cyclic guanosinemonophosphate) was determined, medical technology of management of such patients was developed, the effect of rehabilitation activities was improved, criteria which allow to forecast it were selected.

Protection took place September 21, 2011, protocol number 18. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Shevelok A. Prediction of atrial fibrillation recurrence and their prevention with omega-3 polyunsaturated fatty acids. – The Manuscript.**

It is candidate's thesis on speciality 14.01.11 – cardiology. – Donetsk National Medical University name after M. Gor'kogo Ministry of Public Health Ukraine, Donetsk, 2011.

The dissertation is devoted to improvement of prognosis and treatment optimization of paroxysmal atrial fibrillation in patients with coronary heart disease and arterial hypertension.

It was found that in patients with coronary heart disease, arterial hypertension and first diagnosed paroxysmal AF the most significant predictors of AF recurrence in the next 6 months are P-wave dispersion (OR 1.41, CI 1,08-1,84), left atrium diameter (OR 2.34), the presence of atrial late potentials (OR 56.9), BMI (OR 1.62), serum level of hsCRP (OR 14.3) and pro-ANP (OR 1.006). The statistical model of AF recurrence risk calculation in the next 6 months was developed. Using the model allows to predict the development of arrhythmia recurrence with a

sensitivity of 94% and specificity 91%.

It was grounded the appropriateness and estimated the effectiveness of omega-3 PUFA using in treatment of patients with paroxysmal AF who have high risk of its recurrence. It was shown that using omega-3 PUFAs in a complex standard anti-arrhythmic therapy decreases P-wave dispersion, heart rate, ectopic atrial activity, the incidence of atrial late potential and hsCRP and pro-ANP serum levels. Shown that adding omega-3 PUFA for 6 months in complex treatment of patients with coronary heart disease and hypertension who had paroxysmal AF reduces the risk of arrhythmia recurrence by 29%.

Protection took place October 7, 2011, protocol number 21. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Sarzhevskaya A.V. Metabolic disorder role of homocystein in endothelial dysfunction evolution in middle and old aged patients with angina pectoris. - Manuscript.**

**Thesis for the Candidate's scientific degree in Medicine on the speciality 14.01.11 – cardiology. – Donetsk's National Medical University, Ministry of Public Health of Ukraine, Donetsk's, 2011.**

Thesis is devoted to the study of the features of homocystein metabolism in middle and old aged patients with angina pectoris, its role in autonomic regulation of cardiac activity, ischemic myocardial changes, the functional state of vascular endothelium and quality of life in that category of patients. Possibilities of that changes correction by perindopryl therapy. During research in an integrated study of functional state of vascular endothelium and heart rate variability shown the pathogenic role of homocystein metabolism in the endothelial dysfunction evolution and disturbances of autonomic regulation of cardiac activity in that patients. It shown the connection between homocystein metabolism and decrease the quality of life of patients. The efficiency of peryndopryl in complex therapy in the correction of blood homocystein, reversal of endothelial dysfunction and restore vegetative cardiac performance and quality of life is proved.

Protection took place October 7, 2011, protocol number 20. Work is under consideration in the Department certification personnel of the Ministry of Education Youth and Sports of Ukraine.

**Pentiuk L.O. Metabolic risk factors in women with essential hypertension: relationship with sex hormones levels and effectiveness of treatment. - Manuscript.**

Thesis for candidat's degree by specialty 14.01.11 - Cardiology. – M. Gorky Donetsk National Medical University, Donetsk, 2011.

The work deals the optimization of diagnosis and treatment of arterial hypertension in women through research of metabolic risk factors and their relationship to condition of heart and vessels in women of all reproductive age.

The increase of reproductive age and formation of hypoestrogenemia in women with hypertension accompanied by the development of adverse changes in myocardium and vessels and formation of unfavorable metabolic pattern. Hyperhomocysteinemia, hypercholesterolemia, hypoargininemia, high interleukin-6 level was associated with increased left ventricular mass, carotid intima-media thickness, higher systolic blood pressure and decrease flow mediated dilatation. Folic acid decreases homocysteine level, improves endothelial function and reduces carotid intima-media thickness.

Protection took place October 8, 2011, protocol number 22. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.

**Synyachenko P.O. Defeat of endocarditis and valves of heart at a systemic lupus erythematosus: diagnostics and morphological displays (clinical-experimental research). – Manuscript.**

Dissertation on science degree competition of Ph.D. in medical science on speciality 14.01.11 – cardiology. – M.Gorky Donetsk National Medical University. Health Ministry of Ukraine, Donetsk, 2011.

Dissertation work is sanctified to study of defeats of endocarditis and valves of heart at a systemic lupus erythematosus. In dissertation theoretical generalization of results has given and decision of scientific task has attained - on the basis of the executed experimental researches character of defeat of structures of endocarditis and valves of heart is set for rats with the experimental model of systemic lupus erythematosus, intercommunication is well-proven with the changes of separate structures of myocardium and heart vessels, nosotropic role in these processes of immune violations (againstkernel antibodies, phagocyte function of neytrofiles and makrofags), the features of motion of systemic lupus endocarditis and heart defects are certain depending on the extracardiology signs of disease and antiphosphotide syndrome, that it is shown by clinical and morphological comparisons among living and the dead patients, criterias are developed, that allow to forecast the flow of pathological process.

Protection took place October 8, 2011, protocol number 22. Work is under consideration in the Department certification of personnel of the Ministry of Education of youth and Sports of Ukraine.