98-а підсумкова наукова конференція професорсько-викладацького персоналу БУКОВИНСЬКОГО ДЕРЖАВНОГО МЕДИЧНОГО УНІВЕРСИТЕТУ



examination by light microscopy was conducted to confirm the research results. Data were compared by Mann-Whitney test using SPSS Statistics 17.0.

Administration of gentamicin during 6 days resulted in the toxic kidney injury, manifested in the decrease of diuresis by 54% (p<0.01), increase of plasma creatinine concentration by 3.3 times on the background decrease of GFR by 73% (p<0.01) and significant proteinuria with an increase of protein excretion by 57% (p<0.01) comparing to control. Proximal tubular injury caused an increase of fractional sodium excretion up to 4.55% (p<0.01). Biochemical data correlate with histopathological findings: vacuolar degeneration affected 30%, epithelial necrosis -70% of proximal tubular cells, the lumen of the tubules were filled with hyaline casts, glomerular congestion and their partial atrophy were also observed.

Co-treatment with AEDG decreased the severity of renal injury realized in preclusion of oliguria (increase of diuresis by 81% (p<0.01) comparing to untreated animals), prevention of retention azotemia (decrease of plasma creatinine concentration by 2.8 times, p<0.01), reduction of proteinuria by 40% (p<0.05) and normalization of sodium fractional excretion (to 0.73%, p<0.01). Protective effect of peptide is confirmed by the absence of epithelial necrosis, glomerular atrophy, luminal hyaline casts and potentially reversible hydropic swelling of 91% of the proximal tubular cells

Obtained results suggest the therapeutic potential of tetrapeptide AEDG under the conditions of gentamicininduced kidney injury confirmed by the amelioration of excretory kidney function and histopathological changes.

Smetanyuk O.I. RARE MEDICINAL PLANTS OF CHERNIVTSI REGION

Department of Pharmaceutical Botany and Pharmacognosy Higher Educational Establishment of Ukraine "Bukovinian State Medical University"

In Bukovina region 573 species of wild plants with medicinal properties grow. There are 49 rare and endangered species among them. The Red Book of Ukraine includes 38 species of medicinal plants, 11 species are protected at the regional level. Nature reserve fund of Chernivtsi region occupies almost 8% of the territory, the majority of the rare medicinal plants grow on 29118 ha (only landscape, forest and botanical zone are considered).

Chernivtsi region includes three natural zones - Prut-Dniester interfluve, Bukovinian Precarpathians and Bukovinian Carpathians.

In the area between the Prut-Dniester interfluve 32 species of rare medicinal plants grow. Among them there are the types of populations occurring "often". These are: Pulsatilla latifolia Rupr., Lilium martagon L., Neottia nidusavis (L.). In the area between the Prut-Dniester interfluve 40 protected areas with the territory of 5227.9 hectares are marked. In Bukovinian Carpathians 33 species of rare medicinal plants grow, most of them occur in 45 protected areas on the territory of 8577.9 hectares. In the foothill landscapes populations of rare medicinal plants are often found: Atropa belladonna L., Colchicum autumnale L., Cephalanthera longifolia (L.), Dactylorhiza majalis (Reichend.), Neottia nidus-avis (L.) Rich., Orchis morio L., Platanthera bifolia (L.). Among them there are officinal types – Atropa belladonna L. This plant grows lonely in all natural areas of Bukovina. In Bukovinian Carpathians 35 species of medicinal plants are found. There are plants which populations are often found and belong to a small taxon risk: Lycopodium annotinum L., Astrantia major L. Colchicum autumnale L., Dactylorhiza majalis (Reichend.), Neottia nidus-avis (L.), Platanthera bifolia (L.), Traunsteinera globosa (L.). A popular medicinal plant that grows in mountain meadows is Arnica montana L. In Bukovina it belongs to the taxon of a small risk. Totally in Bukovinian Carpathians there are 17 natural protected areas, occupying the territory of 15312.2 hectares.

Medicinal plants that require protection, by distribution of population in the territory of Bukovina region are divided as follows: 6 rare species, 17 vulnerable species and 26 taxons of a small risk. Considering cenotop most of the rare plants are sylvants (28 species), or pratants (11 species). By the anthropogenic factor – all plants are urbanophobs. One of the measures of protection is the compulsory monitoring of populations' condition.

Tkachuk O.Yu. THE RELEVANCE OF ESTABLISHMENT A NEW COMBINED OIL PHYTOEXTRACT WITH HEPATOTROPIC ACTION

Department of Pharmacy Higher State Educational Establishment of Ukraine "Bukovinian State Medical University"

Liver disease is any condition that may cause liver inflammation or tissue damage and affects liver function. It afflicts over 10% of the world population. This includes chronic hepatitis, alcoholic steatosis, fibrosis, cirrhosis and hepatocellular carcinoma, which are the most healththreatening conditions attracting considerable attention from medical professionals and scientists.

Hepatites with the impaired biliary excretion, as well as inflammatory diseases of the liver and gallbladder are the widespread human diseases, first of all among people of the middle and senior age. The timely treatment of the pathologies mentioned prevents development of chronic diseases and improves the quality of the patients' life.

Approximately 25% of the drugs prescribed worldwide at present come from plants and 60% of anti-infectious drugs already on the market or under clinical investigations are of natural origin. According to the WHO, the