

CAN THE IMMUNITARY RESPONSE BE MODULATED (CONTROLLED) IN VIRAL HEPATITIS, INFLUENZA AND PAROTIDIS USING NON-SPECIFIC NATURAL FACTORS AND OTHER SUBSTANCES ?

Elena Prahoveanu*, Vera Boeru**, Alexandra Popescu*, Gabriela Anton*, Gh.Tobă*, M.Ialomiteanu***, A.Bronitki*

*Institute of Virology "St.S.Nicolau"

**Institute of Endocrinology "C.I.Parhon"

***Clinic of Infectious Diseases "V.Babeş", Bucharest

Immunomodulation is the only strategy in the case of an immunitary lack of balance. The non-specific immunostimulines represent a new type of drugs for the immunity control. The present work shows the result obtained by us in the modulation of the immunitary reaction in the case of chronic viral hepatitis, of experimental toxic hepatitis, in the case of influenza and parotidis (mumps). We used aqueous extracts of *Armoracia Officinalis*, *Beta-Vulgaris*, *Raphanus Niger*, *Allium Sativum*, *Chamenerion Augustifolium*, maize germs and other substances adamantan derivatives, Gerovital H₃, procaine, caffeine, sodium fluoride (NaF) and polypeptidic extracts of thymus TP₁, TP₂. For elucidate some antiviral mechanisms we extracted tannings of *B.Vulgaris*, flavones of *Cham.Augustifolium* and we dosed the steroid hormones from milk and yogourt. Treating the patients having chronic viral hepatitis, influenza with such produces we could modulate the immunity response. The ratio alb./glob. led to a normalization of 0,75 to 1,2-1,5, on increasing of the ratio leucocytes-polynucleare L/P, from 67 to 76, leucocytes increasing from 3800 to 5600-6200. By dosing AA of the serum we proved the normalization of AA of serum in severe forms of hepatitis. The antiviral effects of bee produces, milk, yogourt, except maize germs was the decrease of mortality from 100% to 50% and decreasing the THA from 1280 to 20-40-80 and the over age time of survival DNS of 4-5 times. The 5 fractions obtaining of propolis and instilling them 48, 24, 1 h, 7 days before the infection with influenza virus A (H₁N₁) inhibited the multiplication of virus influenza the fraction V had no influenza effect. The immunomodulation effects with plants extracts were as significant in inhibiting the multiplication of influenza virus as such polypeptidic extracts of thymus TP₁, TP₂, adamantan derivatives, Gerovital H₃, procaine, caffeine, NaF 400: mortality decreased with 60% and THA

from 1433-1280 to 20-40-80 or of mumps virus from 640-32-64. The association of diverse plants and Zn 2,5-10 favoured the multiplication of viruses. The antiviral effect are more intensive when the animals were infected 7 days after the latest administering of the dose drugs. Eventually we shall discuss the possible mechanisms of immunomodulation in viral hepatitis, influenza mumps by stimulating the cell and humoral immunity with natural products and with substances used by us.