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«Actual problems of clinical and  
theoretical medicine»***

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***«Actual Problems Of Clinical And  
Theoretical Medicine»***



# BIOMEDICAL SCIENCES





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**BIOTECHNOLOGICAL INNERVATION AGAINST THE HEPATITIS C**  
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**Actuality.** Currently, hepatitis C occupies a significant place in the structure of morbidity and mortality. In the world of chronic hepatitis C (CHC) It affects about 3% of the population, or about 180 million people.

**Aim.** Based on the reviewed literature to summarize information on current antiviral drugs, which are used for medical treatment of viral hepatitis.

**Materials and methods.** For the treatment of hepatitis C using preparations prepared by genetic engineering - recombinant alpha-interferons.

**Results.** Interferon alfa-2a (Roferon-A), one vial contains 18 million IU of recombinant interferon alfa-2a and 0,005 mg of human serum albumin, the minimum combination therapy Roferon-A with ribavirin it lasts 6 months. Initial dose - 6 million IU 3 times a week for 3 months, maintenance dose - 3 million IU 3 times a week for an during 3 months; Interferon alfa-2b (Altevir) exhibits a nonspecific antiviral and antiproliferative activity, gives the synthesis of viral RNA and viral proteins in the cell and

stimulates the process of antigen presentation to immunocompetent cells, has the ability to stimulate the phagocytic activity of macrophages and cytotoxic activity of T-cells and "natural killer" involved in antiviral immunity. It is used at a dose of 3 million IU 3 times a week during 24-48 weeks. Interferons are used in combination with ribavirin. This therapy is effective in about 75% after a year of treatment. This method has serious side effects: aplastic, hypoplastic anemia, dryness of the oral mucosa, nausea, changes in TSH levels, thyroid dysfunction, arthralgia, myalgia, allergic reactions. A new class of drugs - anti-virus agents a direct action - sofosbuvir. It suppresses the replication of hepatitis C virus.

**Conclusions.** Treatment during the first six months is more effective than once hepatitis C has become chronic. Sofosbuvir with ribavirin and interferon appears to be around 90% effective in those with genotype 1, 4, 5, or 6 disease. Sofosbuvir with just ribavirin appears to be 70 to 95% effective in type 2 and 3 disease but has a higher rate of adverse effects.



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