

STUDYING THE CONSUMER ASPECTS OF CONTACT LENSES.

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Introduction. At present, the sphere of optical vision correction is an object of scientific interest of many specialists around the world, means of correction are being improved, new professional educational programs for specialists are being developed. The range of vision correction devices provides for different kinds of contact lenses. Contact lenses must meet stringent requirements, since they are in direct contact with the cornea, their presence in the eyes should not cause discomfort, should be painless and safe. The most popular is correction of vision with the help of soft contact lenses.

Aim. To study the range and parameters, the comparative characteristics of different kinds of contact lenses, the definition consumer aspects of this type product.

Materials and methods. In carrying out research we used the following research methods: observation, analysis of scientific publications, classification.

Results and discussion. Contact lenses are small, stiff or soft lenses that have a cup-like shape, placed on the eye and having certain optical properties. Contact lenses are classified according to various criteria, in particular: by material, by frequency of change, mode of wearing, design, degree of transparency, moisture content, etc. According to the material of manufacture contact lenses are divided into hard and soft. Soft lenses classified according to the degree of hydrophilicity: with a low degree (<50%) of the moisture content, and also with a high degree (>50%) of the moisture content in them. The main characteristics of the material are the water content, which affects the elasticity of the lens, as well as its oxygen permeability. In the production of soft lenses, innovative technologies and the latest modern technical and scientific achievements are used. «Johnson&Johnson» has developed a technology for obtaining the most smooth surface. «CIBA Vision» produces one-day contact lenses using triple humidification technology. Innovative «Bausch&Lomb» technology minimizes spherical aberrations in the lenses of any optical power. From the correctly defined parameters of curvature and the optical power of the lens itself and the material from which the lens is made, its elasticity or elasticity depends on the clarity of vision, the comfort of fitting the lens in the eye. The soft lens market dominates for vision correction: on average, they are worn by about 90% of patients, and only about 10% of patients use hard contact lenses.

Conclusion. During the analysis of the range of contact lenses, various parameters were studied: material, composition, ability to influence the visual organ, safety, consumer aspects of this type of product.