

## CONTACT LENSES

*Schafer J., Steffen R., Reindel W., Chinn J.*

**Evaluation of surface water characteristics of novel daily disposable contact lens materials, using refractive index shifts after wear** 3

Contact lens wearers today spend much time using digital display devices. Contact lens manufacturers are challenged to develop products that account for longer periods of time where blink rate is reduced and tear-film evaporation rate is increased, affecting both visual acuity and comfort. Two manufacturers recently introduced novel daily disposable contact lenses with high surface water content. The objective of the present study was to compare surface water characteristics before and after initial wear of recently introduced nesofilcon A and delefilcon A high surface water lenses with those of etafilcon A lenses.

**Keywords:** contact lens dehydration, poloxamer, visual acuity, wetting

*Parfenova N. P., Proskurina O. V.*

**Fitting and prescription soft individual of soft individual defocus lenses for myopia control** 12

The algorithm of selection the soft individual defocus lenses is developed for myopia control. 32 patients of children's age (64 eyes) with the progression myopia from  $-0.75$  to  $-12.00$  D (on average  $-4.50$  D), age from 6 to 18 years (average age of 10.5 years) are examined. All children were examined according to the standard scheme for purpose of fitting the individual soft contact lenses supplemented with special procedures, in relation to appointment individual soft contact lenses for the myopia control. To children the contact lenses made with the center for distance and gradually accruing zone of spherical aberrations (add) for ensuring full correction in the center to a retina of an eye and a peripheral myopia defocus on the periphery of a retina were prescribed. These inspections and parameters of the prescribed lenses are analysed. On a clinical example stages of selection of individual defocus soft lenses are shown. The algorithm of selection, the table of calculation of lenses are offered, practical recommendations are made.

**Keywords:** bifocal contact lenses, center for a distance, defocus contact lens, fitting of contact lenses, multifocal contact lenses, myopia, myopia control, peripheral defocus, progressing myopia, soft contact lenses

## POINT OF VIEW

*Price A., Long B.*

**Management of contact lens discomfort** 20

The results from the small in-practice trial outlined in this article indicate that POT can produce significant improvements in the frequency, severity, and overall sum of subjective symptoms associated with dryness among SCL wearers; this indicates that POT is a promising treatment for SCL wearers who have dryness complaints.

**Keywords:** discomfort, dry eye, punctal occlusion therapy, soft contact lenses

## DIAGNOSTICS, TREATMENT, PHERMACOLOGY, PHARMAGY

*Malyshev A. V., Balayan A. S., Karapetov G. Yu., Yudin V. E.*

**The dynamics of the thresholds for the brightness sensitivity of the retina and the quality of life against the background of complex restorative treatment of patients with dry form of macular degeneration after removal of the epiretinal membrane** 27

The authors evaluated the clinical efficacy of the developed method of complex regenerative treatment of patients with dry form of macular degeneration after removal of the epiretinal membrane. The received results testify that after the rehabilitative treatment there is a marked decrease in the thresholds of the brightness sensitivity of the retina, an improvement in the quality of life of the patient, which is generally accompanied by a reduction in the severity of visual impairment.

**Keywords:** epiretinal membrane, macular degeneration, medical rehabilitation

## OPHTHALMOSURGERU

*Barsam A*

**Surgical options for treating astigmatism** 32

This article will discuss the key surgical options available for surgical treatment of regular astigmatism, with emphasis on the advantages and disadvantages of each option.

**Keywords:** astigmatism, IOL, lens, surgery

## EDUCATION

**11th International Conference on Contact Lenses “Acuvue Eye Health Adviser”** 38

On September 29–30, 2017, Johnson & Johnson held a traditional international conference on contact vision correction in Moscow. The venue “Radisson Slavyanskaya” was chosen as in previous years. We present to you a brief summary of the reports that were made during the conference program.