POINT OF VIEW

Papas E.
Where are we heading with contact lenses for presbyopes? 3
Erik Papas examines the current problems in the field of multifocal contact lenses and reflects on what lenses may appear in the near future.
Keywords: accommodation, addidation, monovision, presbyopia

CONTACT LENSES

Worp E., van der
Fit first – practical implications of multifocal soft lens design and fit 7
This article emphasises the importance of ensuring a suitable fit to achieve a successful visual outcome for soft multifocal contact lens wearers.
Keywords: decentration, dominant eye, lens fit, monovision, presbyopia

Scheuer C. A., Rah M. J., Reindel W. T.
Increased concentration of hyaluronan in tears after soaking contact lenses in Biotrue multipurpose solution 13
This study was conducted to determine 1) the concentration of hyaluronan (HA) in the tear films of contact lens (CL) wearers versus non-CL wearers and 2) whether HA sorbed from Biotrue, an HA-containing multipurpose solution (MPS), onto senofilcon A lenses affects the concentration of HA in tears after 2 hours of wear. Tears of habitual CL wearers and non-CL wearers were collected on Schirmer strips at baseline and after 2 hours of wear of senofilcon A CLs that had first been either rinsed with Sensitive Eyes Saline or soaked in Biotrue MPS for 14 hours. HA concentrations were measured by enzyme-linked immunosorbent assay (ELISA) and adjusted for sample volumes.
Keywords: contact lens, dry eye, hyaluronan, MPS

Alyaeva O. O., Ryabenko O. I., Tananakina Ye. M., Yushkova I. S.
Corneal epithelial thickness and its clinical significance in myopic patients wearing orthokeratology lenses 24
At the present time myopia stabilization remains one of the most important issues in ophthalmology. In myopic patients refractive effect of orthokeratology is determined by the change in corneal epithelial thickness at exposed area. The study was aimed to assess corneal epithelial thickness and its correlation with age, clinical refraction, keratometry, corneal diameter and total thickness in patients with myopia. Epitheliopathy was also investigated in patients wearing orthokeratology lenses to determine clinical significance of corneal epithelial thickness.
Keywords: corneal epithelial thickness, correlation analysis, epitheliopathy myopia, total corneal thickness, orthokeratology

SPECTACLES AND OPHTHALMIC LENSES

Shcherbakova O. A.
Individual lenses – the peak of perfection is reached?
Part 2. Current situation and prospects of development 31
In the second part of the article we continue to discuss the benefits of individual lenses and the prospects for their further development.
Keywords: centration, individual lenses, progressive lenses

RESEARCH

Nikiforova A. A.
Computer visual syndrome: search for risk factors 38
The aim of this study is to find risk factors of computer visual syndrome. The following statistically significant factors were revealed: heterophory, low duration of sleep, small accommodation reserve, sympathicotonia. The presence of astigmatism more than 0.75 diopters of the leading eye was a protective factor.
Keywords: accommodation, asthenopia, astigmatism, computer visual syndrome, heterophory, risk factors