

NEWS

- Obituary to Professor Yu. S. Astakhov** 3

CONTACT LENSES

Tompkins A.

- Put the brakes on contact lens dropout** 5

The author of the article on her own experience talks about how to reduce the number of people who stop wearing contact lenses and how to return those who would like to do to contact correction of vision.

Keywords: contact lenses, discomfort, dry eye

Phan Ch.-M.

- Contact lens biosensors: Can we sense our tears?** 11

The article is a review of the scientific literature in the field of development and marketing of smart contact lenses equipped with biosensors capable of measuring biomarkers of diseases in the tear film.

Keywords: biosensors, smart contact lenses, glucose, IOP

DIAGNOSTICS, TREATMENT, PHARMACOLOGY, PHARMACY

Bullimore M., Bennett E. S.

- Clinical controversies in myopia management** 17

In the proposed material, leading world experts in the field of progressive myopia control discuss three conflicting areas, speak out for and against the points of view put forward.

Keywords: contact lenses, myopia control, myopia management, progressive myopia

Chima A. S.

- New developments for amblyopia** 23

This article reviews the literature to outline amblyopia treatments that aim to improve binocular as well as monocular visual outcomes.

Keywords: amblyopia, binocular vision, occluder, virtual reality

SPECTACLES AND OPHTHALMIC LENSES

Shcherbakova O. A.

- Colorless ophthalmic lenses with UV protection** 31

The coronavirus pandemic has led the vast majority of the population on self-isolation, without leaving their flats. Does this mean that eye protection when staying at home is not relevant? Imagine it is relevant – although the brightness of sunlight when you are at home is much less, but ultraviolet radiation still penetrates, reaching our eyes.

Keywords: colorless ophthalmic lenses, UV protection, UV-radiation

NEW O.D.

Patel T.

- Subjective refraction: best vision sphere** 38

This article proposes an algorithm used in England for performing subjective refractometry in order to establish the best vision sphere.

Keywords: best vision sphere, duochrome test, refractometry

Rosenfield M.

- Digital eye strain: How should we be dealing with it?** 46

The article is a review of literature on the problem of the influence of artificial light sources (screens of monitors, laptops, smartphones, tablets, e-books) on the state of the human visual system and methods of therapy for visual fatigue.

Keywords: accommodation, blue light, computer visual syndrome, eye fatigue, optical filter