

CONTACT LENSES

Rah M. J., Callahan D., Kovacs Ch., Lynch Sh.

Biocidal efficacy of multipurpose solutions against Gram-negative organisms associated with corneal infiltrative events 3

Because corneal infiltrative events (CIEs) may result from bacterial components on contact lenses, which can come from contaminated lens cases, we evaluated the biocidal efficacy of five multipurpose solutions against Gram-negative commonly isolated and CIE-associated organisms. Of the multipurpose solutions tested, one contained polyhexamethylene biguanide (PHMB) / polyquaternium-1 (PQ-1; Bausch & Lomb Incorporated: Biotrue), one contained alexidine dihydrochloride (alexidine) / PQ-1 (AMO: RevitaLens OcuTec) and three contained PQ-1 / myristamidopropyl dimethylamine (MAPD; Alcon: Opti-Free PureMoist, PQ-1/MAPD-1; Opti-Free RepleniSH, PQ-1/MAPD-2; Opti-Free Express, PQ-1/MAPD-3). Challenge organisms were CIE-associated *Achromobacter xylosoxidans*, *Delftia acidovorans* and *Stenotrophomonas maltophilia* at manufacturer-recommended durations (stand-alone), in lens cases without lenses (up to seven days) and in lens cases with etafilcon A lenses (up to 30 days). PHMB- and alexidine-based multipurpose solutions demonstrated significantly greater biocidal activity compared with PQ-1/MAPD-based agents against Gram-negative organisms commonly isolated and CIE-associated pathogens.

Keywords: gram-negative organisms, multipurpose solution, myristamidopropyl dimethylamine, polyhexamethylene biguanide

Jubin Ph., Buch J., Nankivil D.

The three dimensions of vision satisfaction 14

Despite the constant improvement of contact lenses, not all users are completely satisfied with the quality of vision. In the proposed material, the authors offer their views on the problem, identify three important factors that contribute to the satisfaction of patients with their eyesight.

Keywords: contact lenses, satisfaction, comfort

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This article outlines the rules and regulations relating to the sale and supply of contact lenses.

Keywords: contact lenses, legal requirements, Opticians Act, UK

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A look at how far daily disposable technology has come – and what we may see in the future.

Keywords: comfort, contact lenses, daily lenses, smart lenses

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Photochromic lenses with mirror coatings 31

Modern mirror coatings will help to create a truly stylish glasses. In combination with photochromic lenses, they allow you to combine fashion trends with effective eye protection at any level of lighting.

Keywords: lenses, photochromic lenses, reflective coatings

DIAGNOSTICS, TREATMENT, PHARMACOLOGY, PHARMAGY

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Which retinal features might predict glaucoma susceptibility in myopic eyes? 35

This article will consider the haemodynamic characteristics of the retina to outline possible reasons for myopic eyes being vulnerable to developing glaucoma.

Keywords: blood flow, glaucoma, haemodynamic, myopia, retina

EDUCATION

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On May 11–13, 2018 there has taken place the integrated International Conference of the European Academy of Optometry and Optics (EAOO) and a conference of optometrists of Central and Southeast Europe (OCCSEE). In the city this year the city of Pula in Croatia has been chosen as the venue. We bring to your attention the short summary of the reports which were heard in the program of a conference and the summary of the Round table by optical and optometric education in the countries of Europe where this year Russia has presented also the purposes and tasks in this area.