

Evaluasi perubahan musin pada pengguna lensa kontak silikon hidrogel lotrafilcon B antara penggunaan daily dan extended wear = Evaluation of mucin changes between daily and extended wear silicone hydrogel contact lens lotrafilcon B

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Abstrak

Tujuan : Melakukan evaluasi perbedaan perubahan kuantitas dan kualitas musin penderita miopia sedang antara pemakaian LKL SiH Lotrafilcon B daily dan extended.

Metode : Penelitian ini menggunakan uji klinis acak tersamar tunggal dengan desain dua kelompok paralel dan dilakukan di Rumah Sakit Cipto Mangunkusumo RSCM Kirana. Pemeriksaan MUC5AC dilakukan pada tahap sebelum pemasangan dan pada minggu ke-4. Evaluasi tipe Ferning dilakukan pada sebelum pemasangan, minggu ke-1 dan 4.

Hasil : Empat puluh subjek yang memenuhi kriteria inklusi bersedia berpartisipasi dalam penelitian ini. Satu subjek dalam kelompok daily wear mengalami drop out karena reaksi alergi terhadap lensa kontak. Terdapat peningkatan kadar MUC5AC yang signifikan secara statistik antara pre-fitting dan minggu ke-4 pada masing-masing kelompok. Kadar akhir MUC5AC setelah perlakuan tidak berbeda signifikan antara kedua kelompok. Perbandingan antara jumlah mata dengan tipe Ferning normal dan abnormal antara kedua kelompok perlakuan tidak menunjukkan perbedaan yang signifikan pada pemeriksaan pre-fitting, minggu ke-1 dan 4.

Kesimpulan : Tidak ada perbedaan perubahan kadar MUC5AC antara penggunaan lotrafilcon B daily dan extended wear.

Purpose: To evaluate differences of mucin quantity and quality changes in moderate myopia patients between daily and extended wear of Lotrafilcon B.

Methods: The design of this study used a single blinded randomized clinical trial with two parallel group designs and performed at Cipto Mangunkusumo Hospital RSCM Kirana. MUC5AC examination was performed at pre fitting and at 4th week. Ferning type evaluation was performed on pre fitting, 1st and 4th week.

Results: Forty subjects who met the inclusion criteria were willing to participate in the study. One subject in the daily wear group experienced a drop out due to an allergic reaction to contact lenses. There was a statistically significant increase in MUC5AC levels between pre fitting and week 4 in each group. The final MUC5AC levels after treatment did not differ significantly between the two groups. Comparison between the number of eyes with normal and abnormal Ferning types between the two treatment groups did not show significant differences in pre fitting examinations, 1st and 4th weeks.

Conclusion: There is no difference in MUC5AC levels between the use of lotrafilcon B daily and extended.