Profil jumlah candida albicans pada biofilm di berbagai bahan basis gigi tiruan (kajian bahan metal resin akrilik dan valplast) = Amount of candida albicans biofilms in different denture base (study material metal acrylic resin and valplast)

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Abstrak

Latar Belakang: Tingginya angka prevalensi denture stomatitis yang terjadi akibat pemakaian gigi tiruan serta pengaruh kestabilan oral candida.
Tujuan: Mengamati pengaruh kekasaran bahan basis gigi tiruan terhadap koloni Candida albicans.
Metode: mengukur uji kekasaran dengan Roughness tester serta spesimen dicelupkan kedalam eppendorf tube modifikasi yang berisi suspensi Candida albicans diinkubasi dalam waktu 24 dan 72 jam. Data analisis dengan Korelasi Bivariat (Pearson).
Hasil: Penurunan jumlah kolonisasi Candida albicans terhadap kekasaran permukaan basis gigi tiruan dipoles dengan tidak dipoles. Terdapat perbedaan jumlah kolonisasi Candida albicans diikuti dengan lama waktu inkubasi.
Kesimpulan: Penurunan nilai CFU Candida albicans dipengaruhi oleh penurunan nilai kekasaran permukaan setelah dilakukan pemolesan pada bahan basis gigi tiruan metal, resin akrilik, dan valplast.
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Background: The high prevalence of denture stomatitis caused by the using of denture and predispose the stability of oral candida.
Objective: The objective of this study is observing the effect of surface roughness of denture base material with the amount of Candida albicans.
Method: measuring surface roughness by using roughness tester and the specimen was immersed int ependorf tube modification with a suspension Candida albicans and incubated for 24 and 72 hour. Data analyzed by Bivariate Correlation (Pearson).
Results: Decrease the amount of Candida albicans colonization of the surface roughness of denture based on polished and not polished. There are differences in the number of Candida albicanos colonization followed by a long incubation time.
Conclusion: The decrease in amount of Candida albicans was affected by the decreasing in the value of the surface roughness after polishing the denture base material metal, acrylic resin, and valplast.