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[\[PDF \(827K\)\]](#) [\[References\]](#)**Comparative effects of two different artificial body fluids on *Candida albicans* adhesion to soft lining materials**[Caner VURAL](#)¹⁾, [Guven OZDEMIR](#)¹⁾, [Huseyin KURTULMUS](#)²⁾, [Ovul KUMBULOGLU](#)²⁾ and [Mutlu ÖZCAN](#)³⁾

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Abstract:

This study investigated the *C. albicans* adhesion to cold- and heat-polymerized soft lining materials that were initially incubated in two different artificial body fluids, namely saliva and nasal secretion, and examined the surface roughness the materials (cold and heat polymerized soft liner) tested *in vitro*. Cold (Visco Gel) and heat-polymerized (Molloplast B) soft liner specimens ($N=32$, $n=8$ per group) (10×10×1.5 mm) were randomly produced to express the relationship between surface roughness and contamination, and influence of body fluids, and incubated in 1.5 ml contaminated solutions for 2 h. After fixation, all of materials were evaluated under optical microscope (×400) and SEM. Surface roughness measurements were examined with profilometre for each material. Data were analyzed using two-way ANOVA, Tukey's HSD and Dunnett T3 tests ($\alpha=0.05$). Material type ($p<0.05$) and contamination media ($p<0.05$) showed a significant influence on the *C. albicans* adherence. The surface roughness of cold polymerized soft liner (Visco Gel) was significantly higher than heat-polymerized soft liner (Molloplast B) ($p<0.05$).

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