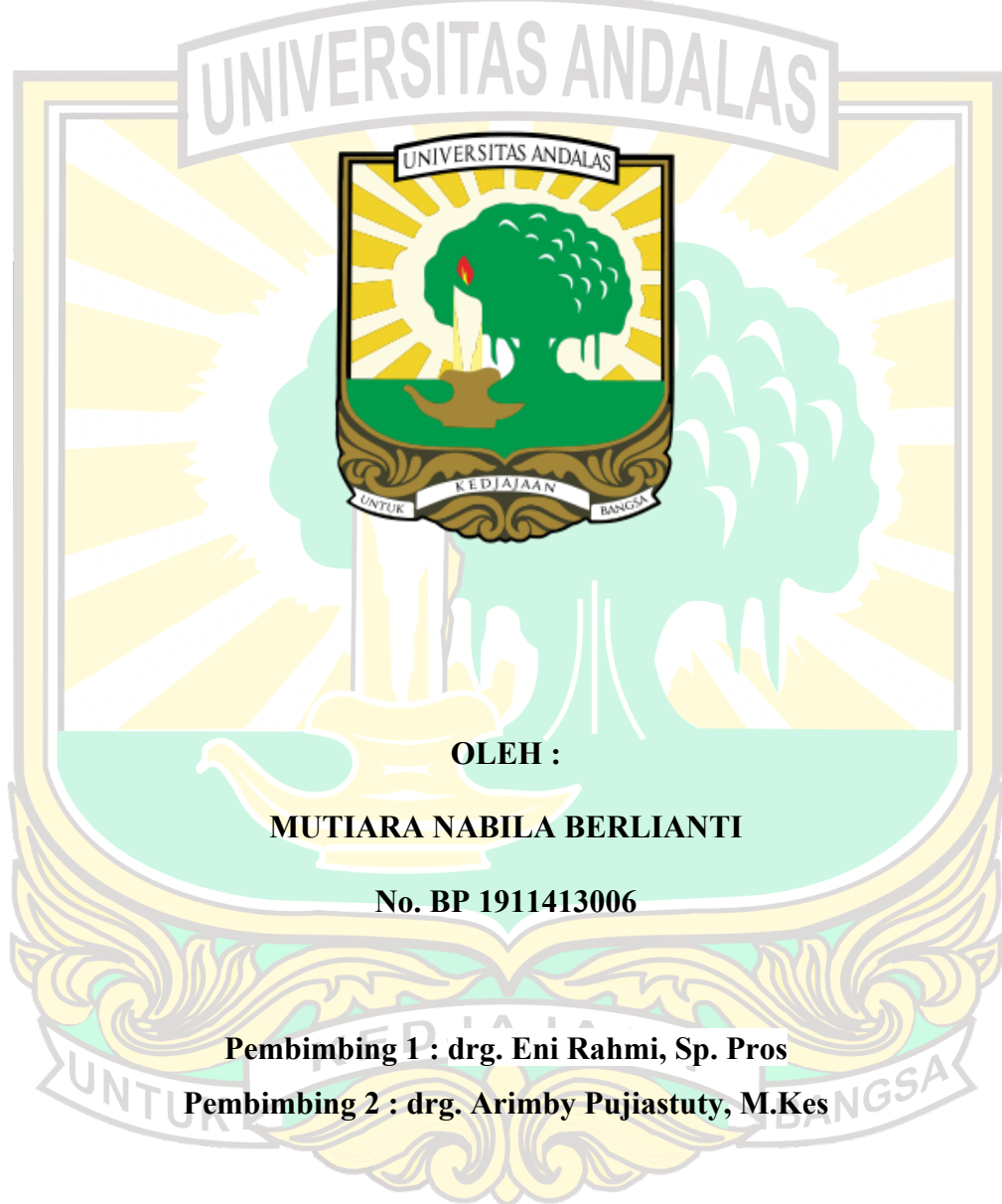


SKRIPSI

**PENGARUH EKSTRAK DAUN SIRIH (*Piper Betle Linn*)
TERHADAP PERUBAHAN WARNA ANASIR
GIGI TIRUAN RESIN AKRILIK**



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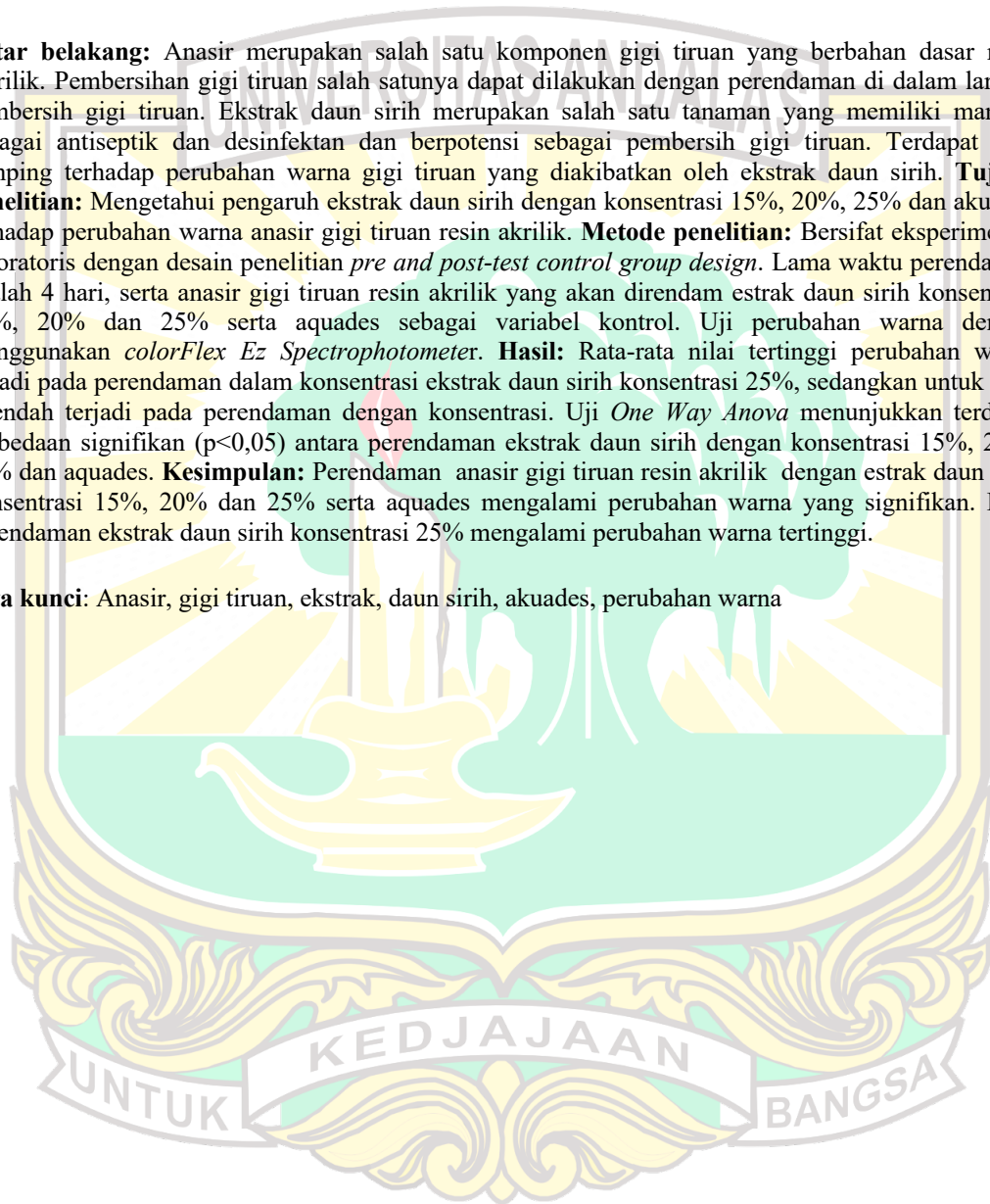
Pengaruh Ekstrak Daun Sirih (*Piper Betle Linn*) Terhadap Perubahan Warna Anasir Gigi Tiruan Resin Akrilik

Mutiara Nabila Berlianti

ABSTRAK

Latar belakang: Anasir merupakan salah satu komponen gigi tiruan yang berbahan dasar resin akrilik. Pembersihan gigi tiruan salah satunya dapat dilakukan dengan perendaman di dalam larutan pembersih gigi tiruan. Ekstrak daun sirih merupakan salah satu tanaman yang memiliki manfaat sebagai antiseptik dan desinfektan dan berpotensi sebagai pembersih gigi tiruan. Terdapat efek samping terhadap perubahan warna gigi tiruan yang diakibatkan oleh ekstrak daun sirih. **Tujuan penelitian:** Mengetahui pengaruh ekstrak daun sirih dengan konsentrasi 15%, 20%, 25% dan aquades terhadap perubahan warna anasir gigi tiruan resin akrilik. **Metode penelitian:** Bersifat eksperimental laboratoris dengan desain penelitian *pre and post-test control group design*. Lama waktu perendaman adalah 4 hari, serta anasir gigi tiruan resin akrilik yang akan direndam ekstrak daun sirih konsentrasi 15%, 20% dan 25% serta aquades sebagai variabel kontrol. Uji perubahan warna dengan menggunakan *colorFlex Ez Spectrophotometer*. **Hasil:** Rata-rata nilai tertinggi perubahan warna terjadi pada perendaman dalam konsentrasi ekstrak daun sirih konsentrasi 25%, sedangkan untuk nilai terendah terjadi pada perendaman dengan konsentrasi. Uji *One Way Anova* menunjukkan terdapat perbedaan signifikan ($p < 0,05$) antara perendaman ekstrak daun sirih dengan konsentrasi 15%, 20%, 25% dan aquades. **Kesimpulan:** Perendaman anasir gigi tiruan resin akrilik dengan ekstrak daun sirih konsentrasi 15%, 20% dan 25% serta aquades mengalami perubahan warna yang signifikan. Pada perendaman ekstrak daun sirih konsentrasi 25% mengalami perubahan warna tertinggi.

kata kunci: Anasir, gigi tiruan, ekstrak, daun sirih, aquades, perubahan warna



Effect Of Betel Leaf Extract (Piper Betle Linn) towards Color Changes Of Artificial Teeth Of Resin Acrylic

Mutiara Nabila Berlianti

ABSTRACT

Background: Artificial teeth are a denture component made from resin acrylic. One of the ways to clean dentures is by immersing them in a denture cleanser. Betel leaf extract is a plant that has benefits as an antiseptic and disinfectant and has the potential to be a denture cleanser. There is an effect of Betel Leaf extract to the discoloration of the resin acrylic artificial teeth. **Objective:** To determine the effect of betel leaf extract with a concentration of 15%, 20%, 25% and distilled water on the color change of acrylic resin artificial teeth. **Research method:** Laboratory experimental in nature with pre and post test control group research design. The immersion time was 4 days, as well as acrylic resin denture elements which were to be soaked in betel leaf extract concentrations of 15%, 20% and 25% and distilled water as the control variable. The test for the color change using the colorFlex Ez Spectrophotometer. **Results:** The highest average value of color change occurred in immersion in a concentration of 25% betel leaf extract, while the lowest value occurred in immersion with concentration. The One Way Anova test showed that there was a significant difference ($p < 0.05$) between soaking betel leaf extract with concentrations of 15%, 20%, 25% and distilled water. **Conclusion:** Soaking acrylic resin denture elements with betel leaf extract concentrations of 15%, 20% and 25% and distilled water experienced a significant change in color. Soaking the betel leaf extract with the concentration of 25% made the highest color change occur.

keywords: acrylic resin, denture elements, betel leaf, extract, distilled water, discoloration.

