

# Pengaruh perendaman gigi dalam minuman kopi dengan berbagai suhu penyangraian biji kopi terhadap perubahan warna gigi = Effect of tooth immersion in coffee beverage with various roasting temperature of coffee beans on tooth discoloration

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## Abstrak

Penelitian ini bertujuan untuk mengetahui pengaruh suhu penyangraian biji kopi terhadap perubahan warna gigi. Dilakukan menggunakan delapan belas gigi premolar post-ekstraksi yang direndam selama 30 jam, 45 jam, dan 60 jam dalam minuman kopi yang biji kopinya disangrai pada suhu 210C, 230C, dan 250C selama 20 menit. Perubahan warna gigi dihitung berdasarkan CIEL\*a\*b\*. Dihasilkan perubahan warna gigi yang berbeda bermakna antar suhu penyangraian biji kopi dan terdapat perubahan warna gigi yang berbeda bermakna pada kelompok suhu penyangraian 250C dalam perendaman selama 60 jam. Disimpulkan terjadi perubahan warna pada gigi dalam perendaman minuman kopi meskipun dengan pengaturan suhu penyangraian yang berbeda.

.....The aim of the research was to analyze the effect of coffee roasting temperature on tooth discoloration. Eighteen post-extracted premolar teeth were immersed in coffee beverage, at which the beans were roasted at 210C, 230C or 250C, for 20 minutes. The color value was measured using CIE L\*a\*b\* system. There were significant changes in tooth color due to different coffee roasting temperatures. There were significant tooth color changes which immersed for 60 hours in the coffee beverage at which the beans were roasted at 250C. In conclusion, there were changes in tooth color after immersing in coffee solution despite different coffee roasting temperature.