

## LAMA *FINISHING* DAN *POLISHING* LEMPENG AKRILIK ORTODONTI LEPASAN DI LABORATORIUM DIII TEKNIK KESEHATAN GIGI

### ABSTRAK

**Latar belakang:** Proses *finishing* dan *polishing* pada pembuatan lempeng akrilik dapat menghasilkan debu yang berasal dari bahan *poly methyl methacrylate* (PMMA) dan *methyl methacrylate* (MMA) yang dapat membahayakan kesehatan teknisi gigi. **Tujuan:** Untuk mengetahui lama waktu teknisi gigi melakukan *finishing* dan *polishing* pada pembuatan suatu lempeng akrilik ortodonti. **Metode:** Jenis penelitian ini adalah deskriptif observasional Teknik pengambilan data menggunakan *total sampling*. Sejumlah 15 mahasiswa semester VI DIII Teknik Kesehatan Gigi masing-masing membuat tiga peranti ortodonti lepasan. Setelah pengisian akrilik selesai waktu *finishing* dan *polishing* dicatat. Data dianalisis secara deskriptif. **Hasil:** Lama *finishing* dan *polishing* lempeng akrilik ortodonti oleh mahasiswa semester VI Program Studi Teknik Kesehatan Gigi sangat bervariasi baik antar mahasiswa maupun antara lempeng akrilik ortodonti yang dibuat, dari 9 – 420 menit dengan rerata 71,20 menit. **Kesimpulan:** Lama *finishing* dan *polishing* pada pembuatan sebuah lempeng akrilik ortodonti oleh mahasiswa DIII Program Studi Teknik Kesehatan Gigi berkisar dari 9 – 420 menit. Faktor yang berpengaruh terhadap lamanya melakukan *finishing* dan *polishing* pada lempeng akrilik diantaranya adalah: desain peranti, keterampilan baik saat pengisian akrilik maupun saat *finishing* dan *polishing*.

**Kata kunci :** Lempeng akrilik ortodonti, *finishing*, *polishing*, debu akrilik

**DURATION OF FINISHING AND POLISHING ON ACRYLIC  
REMOVABLE ORTHODONTIC FABRICATION IN DENTAL  
HEALTH TECHNOLOGY LABORATORY OF DIII STUDY  
PROGRAM**

**ABSTRACT**

**Background:** Finishing and polishing in the fabrication of orthodontic baseplate can produce dust that comes from acrylic material, which can risk the health of dental technicians. **Objective:** To determine the duration of finishing and polishing in the fabrication of removable orthodontic appliance by DIII students of Dental Health Technology Study Program. **Methods:** The research was a descriptive observational study. Data collection techniques was using total sampling. Total 15 students of the 6th semester of Dental Health Technology Study Program were participated in this study. Each of them made three removable orthodontic appliances. After acrylic processing, the duration of finishing and polishing were recorded. Data was analyzed descriptively. **Results:** Duration of finishing and polishing orthodontic plate by students of Dental Health Technology Study Program were varied widely, whether between students or between fabrication the 1st, 2nd and 3rd orthodontic plates, from 9 – 420 minutes with a mean of 71.20 minutes. **Conclusion:** Duration of finishing and polishing in the fabrication of an orthodontic plate was ranged from 9 - 420 minutes. The affecting factors of finishing and polishing baseplate duration were: the design of the appliances, the technician's skills when processing or when doing the finishing and polishing acrylic.

**Keywords:** Orthodontic plate, finishing, polishing, acrylic dust