

POLITEKNIK KESEHATAN TANJUNGPINANG
JURUSAN TEKNIK GIGI

Laporan Tugas Akhir, Juni 2025

Sara Eva Aderika

Pembuatan Gigi Tiruan Sebagian Lepas akrilik dengan Desain Palatal Strap
pada Kasus Migrasi Gigi 26

Xviii + 55 Halaman + 62 Gambar + 2 Tabel + 8 Lampiran

RINGKASAN

Penggantian beberapa gigi yang hilang dapat dilakukan dengan pembuatan gigi tiruan sebagian lepasan akrilik. Penulis mendapatkan kasus kehilangan gigi 25, 27, 36, 46, 47 dengan migrasi gigi 26 ke mesial sehingga ruang *edentulous* menjadi sempit.

Tujuan penulisan laporan tugas akhir ini adalah untuk mengetahui desain, cara pemilihan dan penyusunan elemen gigi, serta kendala dan cara mengatasinya.

Prosedur laboratorium dimulai dari persiapan model kerja, *transfer* desain, *survey* model kerja, *block out*, pembuatan cengkeram, basis dan *biterim*, serta penanaman okludator. Kemudian dilanjutkan pemilihan dan penyusunan elemen gigi, *wax contouring*, *flasking*, *boiling out*, *packing*, *curing*, *deflasking*, *finishing*, dan *polishing*.

Hasil, basis tidak porus dan mengkilap, bagian koil cengkeram C pada gigi 24 sedikit terangkat, pada gigi 45 tidak cekat, dan *fitting* pada model kerja cekat. Inseri ke pasien didapatkan oklusi baik, retensi dan stabilisasi memuaskan. Simpulan, desain rahang atas menggunakan basis *palatal strap* dengan cengkeram C pada gigi 17,24,28. Rahang bawah menggunakan basis *horse shoe* dengan cengkeram C pada gigi 35,37,45,48. Elemen gigi menggunakan ukuran 32 (sedang) dengan warna A2. Penyusunan elemen gigi tidak normal dengan pengurangan pada bagian servikal, mesial, distal untuk menyesuaikan ruang *edentulous* dan oklusi dengan gigi antagonis. Kendala saat *boiling out*, *block out* *wax* hilang, cengkeram pada gigi 45 tidak cekat, dan koil cengkeram pada gigi 14 terangkat. Saran, menggunakan *gips* saat *block out*, memberi jarak antara koil dengan model kerja.

Kata Kunci : GTSL, Resin Akrilik, Migrasi Gigi
Bahan Bacaan : 24 (1991–2024)

**TANJUNGKARANG HEALTH POLYTECHNIC
DEPARTEMENT OF DENTAL TECHNOLOGY**

Final Project Report, June 2025

Sara Eva Aderika

Fabrication of Acrylic Partial Removable Dentures with Palatal Strap Design In
Case of Migration 26

Xviii + 55 Pages + 62 Figures+ 2 Tables+ 8 Attachment

ABSTRACT

Multiple missing teeth can be replaced with acrylic partial removable dentures. The author encountered a case involving missing teeth 25, 27, 36, 46, and 47, with mesial migration of tooth 26, resulting in a narrow edentulous space.

The purpose of this final project report is to understand the design, selection, and arrangement of dental elements, as well as the challenges and how to overcome them.

Laboratory procedures begin with preparation of the working model, design transfer, survey of the working model, blockout, fabrication of clasps, bases, and biterims, and implantation of the occluder. This is followed by selection and arrangement of dental elements, wax contouring, flasking, boiling out, packing, curing, deflasking, finishing, and polishing.

Results, The denture base is not porous and shiny, The color of the A2 denture element is in accordance with the work order, The C clasp coil part on the left maxillary first premolar is slightly lifted so that it appears translucent on the base, The C clasp on the right mandibular second premolar is not fixed, and the fitting on the working model is fixed. Conclusion, the upper jaw design uses a palatal strap base with a C clasp on teeth 17, 24, 28. The lower jaw uses a horse shoe base with a C clasp on teeth 35, 37, 45, 48. The tooth element uses size 32 (medium) with color A2. The arrangement of the tooth element is abnormal with reductions in the cervical, mesial, distal parts to adjust the edentulous space and occlusion with the antagonist teeth. Obstacles during boiling out, block out wax is lost, the clasp on tooth 45 is not fixed, and the clasp coil on tooth 14 is lifted. Suggestions, use a plaster cast when blocking out, providing a distance between the coil and the working model.

Keywords :RPD, Acrylic Resin, Tooth Migration

References : 24 (1991–2024)