

**POLITEKNIK KESEHATAN TANJUNGPINANG**  
**JURUSAN TEKNIK GIGI**

Laporan Tugas Akhir, 20 Juni 2023

Ilham Riyadh Alfariz

Pembuatan Gigi Tiruan Sebagian Lepas Paradental Kombinasi Akrilik Dengan Termoplastik Akrilik Rahang Atas Dan Akrilik Rahang Bawah Pada Kasus Mesioversi Gigi 37 dan 47

(Laporan Kasus)

Xvi + 65 Halaman + 78 Gambar + 1 Tabel + 6 Lampiran

**RINGKASAN**

Gigi tiruan sebagian lepasan digunakan sebagai pengganti gigi yang hilang sehingga dapat menggantikan fungsi gigi asli. Penulis mendapatkan kasus pembuatan gigi tiruan sebagian lepasan kombinasi akrilik dengan termoplastik akrilik rahang atas pada gigi 12,21,22 dan akrilik rahang bawah pada gigi 36,46 dengan kasus migrasi gigi.

Tujuan dari penulisan, untuk mengetahui desain, teknik pemilihan dan penyusunan gigi, kendala dan cara mengatasinya agar mendapatkan retensi, stabilisasi, estetik yang baik

Prosedur pembuatan protesa rahang atas meliputi persiapan model kerja, survey, *duplicating*, penanaman okludator, transfer desain, pembuatan cengkeram dan basis termoplastik. Dilanjutkan *flasking*, pemasangan *sprue*, *boiling out*, *injection*, *deflasking*, pemotongan *sprue*, *finishing*, penyusunan gigi, dan pengerjaan akrilik. Untuk rahang bawah, persiapan model kerja, survey, *block out*, penanaman okludator, transfer desain, pembuatan cengkeram, penyusunan gigi, *flasking*, *boiling out*, *packing*, *curing*, *deflasking*, *finishing* dan *polishing*.

Hasil, protesa sesuai desain, retensi, stabilisasi, estetik baik. Insersi protesa rahang atas, cengkeram di servikal gigi 23 sedikit *open*, protesa rahang bawah cekat, beroklusi baik dengan gigi antagonis. Kesimpulan, protesa rahang atas menggunakan desain basis unilateral dan rahang bawah *saddle*. Retensi didapatkan dari cengkeram *main claps* dan C, stabilisasi dari perluasan basis dan sayap. Elemen gigi berukuran sedang dengan warna A3, bentuk gigi *incisive* lonjong, labial cembung dan distalnya tumpul. Gigi anterior disusun dengan *overjet* 2 mm dan *overbite* 4 mm, bagian posterior disusun normal. Kendala, saat insersi bagian servikal gigi 23 sedikit *open* dan gigi 36 dilakukan *grinding* kembali. Saran, melakukan *finishing* harus berhati-hati agar komponen gigi tiruan berkontak baik dengan mukosa, rentang waktu dari cetakan model kerja sampai insersi jangan terlalu lama agar protesa dapat diinsersikan dengan baik.

Kata kunci : Akrilik, Kombinasi, Migrasi, Termoplastik Akrilik

Daftar Bacaan : 25 (1981-2020)

**TANJUNGPURONG HEALTH POLYTECHNIC**  
**DEPARTMENT OF DENTAL TECHNICIAN**  
Final Project Report, 20 June 2023

Ilham Riyadh Alfariz

Manufacture of Parodontal Removable Partial Dentures Combination of Acrylic with Thermoplastic Acrylic Upper and Mandibular Acrylic in Cases of Mesioversion of Teeth 37 and 47

(Case Report)

Xvi + 65 Pages + 78 Figures + 1 Table + 6 Attachment

**ABSTRACT**

Removable partial dentures are used as a substitute for missing teeth so that they can replace the function of natural teeth. The author found cases of making a combination of acrylic removable partial dentures with thermoplastic acrylic on teeth 12,21,22 and mandibular acrylic on teeth 36,46 with cases of tooth migration.

The purpose of writing, to find out the design, technique of selecting and arranging teeth, constraints and how to overcome them in order to get good retention, stabilization, aesthetics.

Procedures for making maxillary prostheses include preparation of working models, surveying, duplicating, implanting occludators, designs transfer, making clasps and thermoplastic bases. Followed by flasking, sprue installation, boiling out, injection, deflasking, sprue cutting, finishing, tooth arrangement, and acrylic work. For mandibles, preparation of working model, survey, block out, planting of occludator, design transfer, clasp making, tooth assembly, flasking, boiling out, packing, curing, deflasking, finishing and polishing.

Results, prosthesis according to design, retention, stabilization, good aesthetics. Insertion of the maxillary prosthesis, the grip at the cervical of tooth 23 is slightly open, the mandibular prosthesis is fixed, well occluded with the antagonist teeth. In conclusion, the maxillary prosthesis uses a unilateral base design and a mandibular saddle. Retention is achieved by gripping the main clasp and C, stabilization from the expansion of the base and wings. Medium-sized tooth elements with A3 color, incisor shape oval, convex labial and blunt distal. The anterior teeth were arranged with a 2 mm overjet and 4 mm overbite, the posterior teeth were arranged normally. The problem, when inserting the cervical part of tooth 23 was slightly open and tooth 36 was grinding again. Suggestion, finishing must be careful so that the denture components make good contact with the mucosa, the time span from the impression of the working model to insertion should not be too long so that the prosthesis can be properly inserted (fit).

Keywords : Acrylic, Combination, Migration, Acrylic Thermoplastic

Reading List : 25 (1981-2020)