

POLITEKNIK KESEHATAN TANJUNG KARANG
JURUSAN TEKNIK GIGI

Laporan Tugas Akhir, Juni 2024

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Pembuatan Gigi Tiruan Sebagian Lepasan *Paradental* Akrilik Kombinasi Plat Ortodonti Pada Kasus Proklinasi Gigi Anterior.

xv + 61 Halaman + 59 Gambar + 2 Tabel

RINGKASAN

Gigi tiruan sebagian lepasan adalah protesa yang menggantikan beberapa gigi yang hilang dan dapat lepas pasang oleh pasien. Penulis mendapatkan kasus tentang pembuatan gigi tiruan sebagian lepasan akrilik kombinasi plat ortodonti pada kehilangan gigi 13, 14, 16, 17, 24, 25, 26, 36, 38, 44, 45 disertai proklinasi gigi anterior rahang atas dan rahang bawah.

Tujuan penulisan laporan tugas akhir ini adalah untuk mengetahui desain GTSL dan plat ortodonti dalam mengembalikan *overjet* dan *overbite* yang normal, cara pemilihan dan penyusunan elemen gigi, kendala-kendala dan cara mengatasinya agar memperoleh retensi, stabilisasi dan oklusi yang baik.

Prosedur pembuatan dimulai dari tahap persiapan model kerja, *transfer* desain, pembuatan cengkeram, *bite rim*, penanaman okludator. Selanjutnya pemilihan dan penyusunan elemen gigi, *flasking*, *boiling out*, *packing*, *curing*, *deflasking*, *finishing* dan *polishing*.

Hasil, protesa sesuai dengan desain dan SPK, retensi pada model kerja cukup baik, basis halus dan mengkilap, cengkeram C pada gigi 15, 46 tidak melekat dengan baik. Simpulan, desain rahang atas dan bawah menggunakan basis *horse shoe* dengan cengkeram C ditempatkan pada gigi 15, 18, 27, 34, 37, 46 serta *labial bow* pada gigi 12 sampai 23 dan 32 sampai 43. Pemilihan elemen gigi menggunakan warna A3 dengan ukuran M30 (sedang). Gigi disusun pada puncak *ridge* dengan oklusi posterior kiri *cusp to cusp* dan posterior kanan *crossbite*. Kendala, model kerja patah, posisi cengkeram C pada gigi 15 dan 47 berubah. Saran, pengulasan CMS harus merata agar protesa mudah dilepas dari model kerja dan reparasi cengkeram.

Kata Kunci : Akrilik, Plat Ortodonti, Proklinasi
Daftar Bacaan : 34 (1991-2024)

**TANJUNG KARANG HEALTH POLYTECHNIC
DEPARTMENT OF DENTAL TECHNOLOGY**

Final Project Report, June 2024

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Fabrication of Paradental Acrylic Partial Dentures Combined with Orthodontic Removable Appliances in Cases of Anterior Teeth Proclination

xvi + 61 Pages + 59 Figures + 2 Tables

ABSTRACT

A partial removable denture is a prosthesis designed to replace multiple missing teeth, which can be removed and reinserted by the patient. In this case, the author was involved in the fabrication of a acrylic removable partial dentures combined with orthodontic removable appliances to address the loss of teeth 13, 14, 16, 17, 24, 25, 26, 36, 38, 44, and 45, accompanied by proclination of the anterior teeth in both the maxillary and mandibular.

The objective of this final project report is to explore the design of the partial removable denture and orthodontic removable appliances in restoring normal overjet and overbite, the selection and arrangement of artificial teeth, the challenges encountered during fabrication, and the strategies to achieve optimal retention, stabilization, and occlusion.

The fabrication process begins with the preparation of the model cast, design transfer, clasp fabrication, bite rim, and occluder placement. This is followed by the selection and arrangement of artificial teeth, flasking, boiling, packing, curing, deflasking, finishing, and polishing.

The result prosthesis conforms to the intended design and SPK. Retention on the model cast is adequate, the base is smooth and glossy, although the C clasp on teeth 15 and 46 did not adhere properly. The conclusion is maxillary and mandibular designs incorporate a horseshoe-shaped base with C clasps positioned on teeth 15, 18, 27, 34, 37, and 46, and a labial bow extending from teeth 12 to 23 and 32 to 43. Artificial teeth were selected in A3 shade, size M30 (medium). The teeth were arranged along the ridge crest, with cusp to cusp occlusion on the left posterior side and a crossbite on the right posterior side. The Challenges is model cast was fractured, and the positions of the C clasps on teeth 15 and 47 shifted. It is advised that the application of CMS be applied evenly to facilitate prosthesis removal from model cast and repair of the clasps.

Key word : Acrylic, Removable Orthodontic Appliances, Proclination

Reading List : 34 (1991-2024)