

POLITEKNIK KESAHATAN TANJUNGPINRANG

JURUSAN TEKNIK GIGI

Laporan tugas akhir, 11 Juni 2024

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Pembuatan gigi tiruan sebagian lepasan akrilik rahang atas *free end unilateral* dan rahang bawah *bilateral* dengan kasus rotasi gigi 44 disertai *resorpsi* tulang *alveolar*.

Xvii + 58 halaman + 40 gambar + 2 tabel + 4 lampiran

RINGKASAN

Gigi tiruan sebagian lepasan (GTSL) merupakan protesa yang menggantikan satu atau beberapa gigi yang hilang. Berdasarkan laporan kasus yang penulis dapatkan, gigi yang harus diganti rahang atas 11, 13, 15, 16, 21, 22, 24, 25, 26, 27 dan rahang bawah 34, 35, 36, 37, 43, 45, 46, 47 dengan rotasi gigi 44 disertai *resorpsi* tulang *alveolar*.

Tujuan penulisan laporan tugas akhir ini adalah untuk mengetahui pemilihan elemen gigi penentuan desain, teknik penyusunan gigi, kendala-kendala dan cara mengatasinya dalam pembuatan gigi tiruan sebagian lepasan (GTSL) rahang atas *free end unilateral* dan rahang bawah *bilateral* dengan kasus rotasi gigi 44 disertai *resorpsi* tulang *alveolar*.

Prosedur pembuatan yang dilakukan adalah prosedur laboratorium meliputi persiapan model kerja, survey, *block out*, *transfer* desain, pembuatan cengkeram, biterim, penanaman artikulator, penyusunan gigi, *wax Contouring*, *flasking*, *boiling*, *packing*, *curing*, *deflasking*, *finishing* dan *polishing*.

Hasil, retensi dan stabilisasi cukup baik, warna gigi sesuai SPK. Simpulan, desain plat rahang atas *full plate* dan rahang bawah berbentuk tapal kuda, cengkeram C pada gigi 23, 33 dan *half Jackson* pada gigi 14, 17, 44. Penyusunan gigi posterior kanan disusun tidak normal karena menyesuaikan dengan gigi yang migrasi. Kendala-kendala yang terjadi, saat penyusunan gigi membutuhkan pengurangan gigi di bagian servikal untuk mendapatkan oklusi yang baik. Saat packing, pada saat boiling out gips pecah akibat adanya *undercut*, pada saat *deflasking* bagian sayap anterior rang atas patah, hasil protesa terdapat sedikit porus. Tekniker harus lebih teliti dan mempunyai keterampilan, agar tidak terjadi kesalahan pada saat protesa sudah menjadi akrilik.

Kata Kunci : GTSL, Rotasi , *Resorpsi* tulang *alveolar*

Daftar bacaan : 23 (1991-2022)

TANJUNGPURONG HEALTH POLYTECHNIC
DENTAL ENGINEERING DEPARTMENT

Final project report, 11 June 2024

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The manufacture of removable partial denture of the upper free end unilateral and bilateral lower with a case of tooth rotation 44 accompanied by alveolar bone resorption.

Xvii + 58 page + 40 figure + 2 tabel + 4 Attachment

ABSTRAK

Removable Partial Denture (RPD) is a prosthesis that replaces one or more missing teeth. Based on the case report obtained by the author, teeth that must be replaced upper 11, 13, 15, 16, 21, 22, 24, 25, 26, 27 and lower 34, 35, 36, 37, 43, 45, 46, 47 with tooth rotation 44 accompanied by alveolar bone resorption.

The purpose of writing this final project report is to find out the selection of dental elements, design determination, tooth arrangement techniques, obstacles and how to overcome them in the manufacture of partial acrylic dentures of the upper free end unilateral and bilateral lower with a case of tooth rotation 44 accompanied by alveolar bone resorption.

The manufacturing procedures carried out are laboratory procedures including work model preparation, survey, block out, design transfer, clasp making, biterim, mounting model, dental arrangement, wax contouring, flasking, boiling, packing, curing, deflasking, finishing and polishing.

The results, retention and stabilization are quite good, the color of the teeth is according to the SPK. In conclusion, the design of the full plate for jaw upper and the horseshoe-shaped for jaw lower, C clasp on 23, 33 and half Jackson's clasp on 14, 17, 44. The arrangement of the right posterior teeth is arranged abnormally because it adjusts to the migratory teeth. Obstacles that occur, when arranging teeth requires tooth reduction in the cervical part to get good occlusion. During packing, when boiling out the cast bursts due to an undercut, when deflasking the anterior wing of the upper rang is broken, the result of the prosthesis is slightly porous. Technicians must be more careful and have skills, so that mistakes do not occur when the protest has become acrylic.

Keywords: RPD, Rotation, Alveolar bone resorption

Reading list : 23 (1991-2022)