Obturator with favorable intaglio extension

Abdul Habeeb Bin Mohsin

ABSTRACT

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CASE REPORT

A 47-year-old female reported to the department of prosthodontics with a chief complaint of broken prosthesis causing difficulty in speech and nasal discharge of water and exudates into the mouth. Past dental history revealed that patient underwent surgical treatment for cleft lip and cleft palate 10 years back, with missing incisors and canine in right quadrant of maxilla. Post-surgery patient was using labial obturator to cover the maxillary defect. Clinical examination revealed maxillary defect extending from alveolar ridge of maxillae in relation to 11, 12 and 13 missing teeth to hard palate involving part of mid palatal raphe. The patient was rehabilitated with obturator closing the defect and replacing the missing teeth along with it to restore esthetics. The obturator was relined with soft liner with Intaglio Extension utilizing favorable undercuts for retention atraumatically (Figures 1–3).

DISCUSSION

Obturator prosthesis is commonly used in cases of maxillary defects to separate oral cavity and nasal cavity. It helps to restore speech and normal deglutition [1]. Designing of prosthesis is critical in maxillary defects [2]. In this case, retentive design of prosthesis was planned in a way to extend the intaglio soft liner extension into the favorable undercut into the defect area approximating the soft tissue [3, 4]. Favorable soft intaglio extension will

impart proprioception and retention. Overall treatment provided a positive impact on physical health and psychological well-being of the patient.

Figure 1: Maxillary defect (A) Occlusal view, and (B) Labial view.

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Figure 2: Obturator prosthesis with intaglio extension (A) Saggital view, and (B) Lateral view.

Figure 3: Postoperative view.

CONCLUSION

Obturator prosthesis improves oral function. Appropriate planning of obturator improves deglutition, speech, esthetics, retention and enhances psychological comfort. It benefits the morale of the patients.

Keywords: Intaglio extension, Obturator, Prosthesis, Soft liner

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Abdul Habeeb Bin Mohsin – Substantial contributions to conception and design, Acquisition of data, Analysis and interpretation of data, Drafting the article, Revising it critically for important intellectual content, Final approval of the version to be published

Guarantor of Submission

The corresponding author is the guarantor of submission.

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Author declares no conflict of interest.

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