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**Early Management of Hemimandibulectomy Patient with Guide Flange
Appliance: A Case Report**

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ABSTRACT

Surgical removal of the pathologic lesion and extensive resection of the lower jaw are typically necessary for benign or malignant neoplasms that are present in the lower jaw. Following surgical removal of neoplastic lesions of the oral cavity, mandibular resection can result in a variety of negative side effects, such as altered mandibular movements, disfigurement, difficulty swallowing, impaired speech and articulation, and deviation of the mandible in the direction of the resected site. The effects of a partial mandibular resection without loss of mandibular continuity are often less severe than those of a resection without preserved mandibular continuity. Loss of continuity results in rotation of the mandibular occlusal plane downward and deflection of the remaining segment(s) towards the defect. Due to the muscular imbalance caused by the unilateral muscle removal, the changed maxillomandibular connection, and the decreased tooth-to-tooth contacts, masticatory performance is affected after a segmental mandibulectomy procedure. While masticatory function is typically still impaired, initial mandibular restoration strives to restore facial symmetry, arch alignment, and stable occlusion. Due to muscle pull and scar contracture, loss of mandibular continuity causes the remaining

mandibular segments to deviate in the direction of the defect and to rotate the mandibular occlusal plane inferiorly. Intermaxillary fixation, maxillary retained palatal guidance prosthesis, mandibular retained guidance prosthesis, and implant supported mandibular prosthesis are the treatment options available if sufficient bone is present. In this case report we have treated a patient of hemimandibulectomy with guide flange appliance. Generally the mandible shifts towards defect side but in our case it showed opposite scenario, but we were able to treat the patient successfully using same principles of guiding and training the muscles.

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