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## Comprehensive Appraisal of the All-on-Four Concept in Rehabilitating Edentulous Patients: A Critical Analysis

**Running title: Comprehensive Appraisal of the All-on-Four Concept**

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### ABSTRACT

Edentulism, a prevalent condition among elderly individuals, arises from diverse factors encompassing subpar oral hygiene, dental caries, and periodontal disease. Its ramifications extend beyond the physical realm, permeating into the social and psychological domains. Adverse effects manifest in compromised facial and oral aesthetics, diminished masticatory function, and impaired speech abilities, collectively culminating in a substantial diminishment of patients' quality of life. A spectrum of prosthetic solutions is available for ameliorating the edentulous state, including conventional complete dentures, implant-supported removable prostheses, and implant-supported fixed prostheses.

Among these options, the all-on-four paradigm stands as a compelling alternative to conventional implant modalities. This approach entails the strategic placement of four implants—two in the interforaminal region of the mandible and two in the pre-maxillary region in cases of total edentulism. Noteworthy is the configuration wherein the two anterior implants conform to the natural contours of the jaw, while the two posterior implants assume a posterior tilt of 45°. This arrangement confers a trifecta of benefits: robust implant anchorage, abbreviated cantilever length, and a generous inter-implant distance, collectively fostering a propitious treatment outcome.

This study endeavors to delineate the foundational tenets of the all-on-four concept, offering a comprehensive exposition of its merits and demerits. Through meticulous scrutiny, this research aims to provide an incisive assessment of this innovative approach in the rehabilitation of edentulous patients, with the ultimate goal of

augmenting the efficacy and refinement of dental prosthetic interventions.

**Keywords:** All on four concept; Dental implant; Tilted implant

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