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BOOK OF ABSTRACTS

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TMD PATIENTS TREATMENT WITH MAXILLARY STABILIZATION APPLIANCES

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Introduction: Occlusal splints are treatment approach in establishing neuromuscular functional balance between different parts of the stomatognathic system in patients with temporomandibular disorders (TMDs).

Materials and Methods: To show the effectiveness of the Maxillary stabilization appliances, also known as Michigan splint in management of various temporomandibular disorders.
Through this case report we present the occlusal splint use, as intermediate treatment, by repositioning the mandible in the central relation, as a physiologic treatment position, before starting the orthodontic therapy with fixed orthodontic appliances. Patient had presence of various temporomandibular disorders (TMD) symptoms, such as crepitations and subluxation of TMJ, headaches, myofascial pain, pain in the TMJ region and pain radiating to the neck and shoulders. After the complete clinical examination and digital T-Scan computerized occlusal analysis, we made the Michigan splint as a specific type of occlusal splint designed to reposition the jaw to a more optimal alignment, which works by gradually adjusting or stabilizing the position of the lower jaw to the most comfortable position to alleviate strain on the temporomandibular joint and surrounding muscles, thereby reducing symptoms such as jaw pain, clicking and limited movement.

Results: Occlusal splint therapy is useful for the diagnosis and management of various masticatory system disorders and considerably reduce TMD symptoms.

Keywords: Whenever rearrangement of the occlusion is required, use of splint therapy modifying the muscle hyperactivity and ensuring a stable relationship is essential.
Temporomandibular disorders, occlusal splints, digital T-Scan computerized occlusal analysis.