3D PLANNING IN MANDIBULAR FRACTURES USING CAD/CAM SURGICAL SPLINTS – A PROSPECTIVE RANDOMIZED CONTROLLED TRIAL

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INTRODUCTION

Mandibular fractures results in various cosmetic & functional problems. The incidence ranges from 15.5%-59%. Precise anatomic reduction of fractured bone and achieving ideal occlusion of teeth are the main goals in fracture management. These can be attained using various devices and techniques. Pre - operatively fabricated lab splints have been established as one of the reduction methods; but are associated with numerous limitations such as time consumption, technique sensitivity and patient intolerance due to post-traumatic trismus.

Though CAD/CAM (Computer aided designing/Computer aided manufacturing) splints have been introduced in the field of trauma to negate these drawbacks, their use is less exploited. Randomized controlled trials which compare the use of acrylic handmade splints and CAD/CAM splints have not been conducted in a comprehensive manner.

