**ABSTRACT:-**

**TITLE:** Comparative Efficacy of Polydioxanone (PDO) threads and microneedling in Intraoral Scar Revision.

INTRODUCTION:-

Intraoral scars can result from trauma, surgical procedures, or pathological conditions, leading to functional and aesthetic concerns. Various minimally invasive techniques, including polydioxanone (PDO) threads and microneedling, have been explored for scar remodeling. However, their comparative efficacy in intraoral scar revision remains unclear.

Objective:-

This study aims to evaluate and compare the efficacy of PDO threads and microneedling in the revision of intraoral scars, focusing on improvements in scar appearance, tissue elasticity, and patient-reported outcomes.

Materials &Methods:-

Assessing the outcomes of PDO thread insertion and microneedling for intraoral scar treatment. Parameters such as scar texture, collagen remodeling, healing time, and patient satisfaction were analyzed.

Results:-

PDO threads demonstrated significant improvement in scar pliability and tissue support, with effects attributed to collagen stimulation and mechanical lifting. Microneedling, on the other hand, enhanced collagen remodeling and promoted scar softening through controlled microtrauma. Both techniques showed promising results, but PDO threads were associated with longer-lasting structural support, while microneedling offered a less invasive approach with minimal downtime.

Conclusion:-

The polydioxanone (PDO) threads will have an significant improvement in Scar Aesthetics and Texture, Reduction in Scar Size and Thickness, and Higher Patient Satisfaction than the microneedling for intraoral scar revision.