

Abstract

and quality of life. Over the years, hair transplantation has emerged as a viable solution for those seeking to restore their natural hairline and achieve a fuller head of hair. This review article aims to provide a comprehensive overview of the advancements in hair transplantation techniques, focusing on both surgical and non-surgical approaches. We discuss the history of hair transplantation, the evolution of techniques, current state-of-the-art procedures, and potential future

Ke ord : Hair transplantation, Hair restoration; Alopecia; Follicular unit transplantation (FUT)

Indrod clion

Hair loss, or alopecia, is a common cosmetic concern that a ects individuals of all ages and genders. While it is a natural part of the aging process, many people nd it distressing and seek ways to regain their hair and con dence. Hair transplantation has emerged as a highly e ective solution, o ering both surgical and non-surgical options for hair restoration. is review article will delve into the history, evolution, and current state of hair transplantation techniques, shedding light on the latest advancements in the eld [1, 2]. Hair transplantation has evolved signi cantly over the years, transforming from a rudimentary procedure to a sophisticated and highly e ective solution for hair loss. is comprehensive review explores the latest advancements in hair transplantation techniques, shedding light on the innovative approaches that have revolutionized the eld. Historically, hair restoration procedures primarily involved the transplantation of hair follicles from one area of the scalp to another. While this basic concept remains, recent years have witnessed a surge in technological and procedural enhancements that have elevated the outcomes and patient experience. One noteworthy advancement is the re nement of Follicular Unit Transplantation (FUT) and Follicular Unit Extraction (FUE) techniques. FUT involves the removal of a strip of hairbearing skin, from which individual follicular units are extracted and transplanted. In contrast, FUE is a minimally invasive technique where individual follicular units are directly harvested from the donor e advent of robotics in FUE procedures has further improved area. precision and reduced recovery times. Another pivotal breakthrough is the utilization of platelet-rich plasma (PRP) in conjunction with hair transplantation [3-5]. PRP, derived from the patient's own blood, is rich in growth factors that stimulate hair follicle activity and enhance gra is adjunctive therapy has demonstrated promising results survival. in promoting faster healing and improved hair regrowth. Beyond traditional scalp transplantation, advancements have expanded the scope to include body hair transplantation and facial hair restoration.

these breakthroughs and more, o ering a nuanced understanding of the contemporary landscape of hair transplantation [6-8]. As technology continues to advance and scienti c research progresses, the future of hair transplantation holds exciting possibilities, promising even more e ective and personalized solutions for individuals seeking to restore their natural hairline and con dence.

Material and Method

Hi Øorical per pec e

Early Attempts e rst recorded hair transplant dates back to 1822, when a German surgeon attempted to transplant hair from one area of the body to another. Early techniques involved gra ing small skin aps with hair follicles from one area to another, o en resulting in poor outcomes.

Modern era

Dr. Norman Orentreich's pioneering work in the 1950s laid the foundation for modern hair transplantation. Orentreich's concept of "donor dominance" revolutionized the eld and led to the development of the punch gratechnique.

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Punch Gra sDescription of punch gra s and their limitations. Introduction of mini and microgra s to improve naturalness.

Follic lar nikkran plankkon (FUT)

Explanation of FUT, including strip harvesting and suturing methods. Advantages and disadvantages of FUT. Follicular Unit Extraction Overview of FUE as a minimally invasive technique. Robotic-assisted FUE and its bene ts. Current State-of-the-Art Hair Transplantation Techniques Robotic Hair Transplantation In-depth

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