

## **Abstract**

### **Background:**

About 50% of men experience different types of hair loss by the age of 50. To treat this problem, the FDA and the European Medical Association have considered only "oral" finasteride and topical minoxidil sufficient for male pattern hair loss. The side effects of "oral" finasteride in the treatment of male pattern baldness are such that many patients are reluctant to take it.

### **Aim:**

Determining and comparing the effect of two drugs, topical solution of finasteride 2% and topical solution of minoxidil 5% in the treatment of androgenic alopecia in men referred to the clinic of Imam Reza hospital in Ardabil.

### **Materials and Methods:**

The statistical population includes all men with androgenic alopecia who referred to the clinic of Imam Reza hospital in Ardabil. After being fully informed about the research method, they were treated with finasteride or minoxidil solution randomly and examined monthly.

### **Results:**

In monthly follow-up of patients in the Minoxidil group Pull test was negative in 38.5% of patients during the first 1-2 months, which included 53% of patients in the finasteride group. In 2-3% of patients in the minoxidil group, tension headache and scalp irritation were reported, but no such side effects were found in the finasteride group.

### **Conclusion:**

In general, reduction of hair loss and hair regrowth during six months of continuous use of the drug was observed in 62.2% of patients in the minoxidil group and 88.7% of patients in the finasteride group , This finding has been reported in similar studies with a smaller sample size for a maximum of 73% in use finasteride solution.

**Key words:** Androgenic alopecia - Finasteride topical solution - Minoxidil topical solution