

Table 1: Comparison between the study groups according to sociodemographic data.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Age (years):				
Mean ± SD	27.0±4.41	25.73±4.27	Independent sample t test	0.43
Median (range)	27 (19-35)	25 (20-32)		
Smoking:				
No	7 (46.67%)	10 (66.67%)	Chi square test	0.44
Cigarettes	5 (33.33%)	4 (26.67%)		
Gauza	3 (20%)	1 (6.67%)		
Residence:				
Rural	12 (80%)	10 (66.67%)	Fisher exact test	0.68
Urban	3 (20%)	5 (33.33%)		
Education:				
Illiterate	0	1 (6.67%)	Chi square test	0.56
Primary	2 (13.33%)	4 (26.67%)		
High school	4 (26.67%)	3 (20%)		
University	9 (60.00%)	7 (46.67%)		
Marital status:				
Single	4 (26.67%)	6 (40%)	Chi square test	0.48
Married	10 (66.67%)	9 (60%)		
Divorced	1 (6.67%)	0		

* P value <0.05 was significant.

Most of the patients (93.33%) showed gradual onset of hair loss and progressive course was reported in all patients. There was no statistically significant difference between the two groups as regards onset, and duration of hair loss. The highest prevalence of hair loss was in the frontal and vertex regions (50% of patients) (Table 2).

Table 2: Comparison between the study groups according to characters of hair loss.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Onset:				
Acute	0	2 (13.33%)	Fisher exact test	0.48
Gradual	15 (100%)	13 (86.67%)		
Course:				
Progressive	15 (100%)	15 (100%)		
Duration of illness:				
Mean ± SD	5.66±2.23	4.33±2.23	Mann-Whitney test	0.10
Median (range)	6 (3-10)	4 (2-8)		
Site of hair loss:				
Front	3 (20.00%)	2 (13.33%)	Chi square test	0.88
Front and vertex	7 (46.67%)	8 (53.33%)		
Temple	3 (20.00%)	2 (13.33%)		
Temple & vertex	2 (13.33%)	3 (20.00%)		

* P value <0.05 was significant.

Table 3: Changes of hair density in the study groups before and after treatment.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Hair density at base line:				
Mean ± SD	197.27±137.48	189.07±143.1	Mann-Whitney test	0.76
Median (range)	200 (11-400)	187.5 (6-467)		
Hair density after 6 months:				
Mean ± SD	224.87±150.74	180±130.48	Mann-Whitney test	0.39
Median (range)	227 (36-480)	150 (12-410)		
P value compared before and after treatment	0.08	0.65	Wilcoxon Signed Rank test	
Hair density change:				
Mean ± SD	27.6±62.49	[-9.07]±30.30	Mann-Whitney test	0.02
Median (range)	25 ([-80]-170)	0.5 ([-87]-22)		
Hair density change percent:	12%	-4%		0.14

* P value <0.05 was significant.

Table 4: Changes of hair caliber width in the study groups before and after treatment.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Hair caliber width at baseline:				
Mean ± SD	0.022±0.024	0.020±0.016	Mann-Whitney test	0.90
Median (range)	0.018 (0.002-0.086)	0.018 (0.001-0.05)		
Hair caliber after 6 months:				
Mean ± SD	0.046±0.019	0.020±0.013	Mann-Whitney test	0.001
Median (range)	0.42 (0.014-0.078)	0.015 (0.004-0.045)		
P value compared before and after treatment	0.005	0.69	Wilcoxon Signed Rank test	
Hair caliber width change:				
Mean ± SD	0.023±0.024	0.0003±0.015	Mann-Whitney test	0.003
Median (range)	0.026 ([-0.022]-0.063)	0.001 ([-0.027]-0.031)		
Hair caliber change Percent	98%	3%		0.03

* P value <0.05 was significant.

Table 5: Changes of hair terminal/vellus ratio in the study groups before and after treatment.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Hair terminal/vellus ratio at base line:				
Mean ± SD	3.99±5.08	2.72±3.88	Mann-Whitney test	0.65
Median (range)	2.0 (0.14-0.18)	1.75 (0.14-15.4)		
Hair terminal/vellus ratio after 6 months:				
Mean ± SD	7.09±7.91	2.89±5.06	Mann-Whitney test	0.15
Median (range)	2.45 (0.15-22.2)	1.45 (0.13-20)		
P value compared before and after treatment	0.005	0.73	Wilcoxon Signed Rank test	
Hair terminal/vellus ratio change:				
Mean ± SD	3.10±6.17	0.17±1.40	Mann-Whitney test	0.02
Median (range)	0.4 ([-1.1]-20.2)	-0.005 ([-1.3]-4.6)		
Hair terminal/vellus ratio change percent	72%	4%		0.02

* P value <0.05 was significant.

There was statistically significant difference between the two groups as regards all parameters of the patient self-assessment questionnaire. The improvement and satisfaction were better in group 1 (Table 6).

Table 6: Comparison between the study groups according to self-assessment questionnaire.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Bald spot getting smaller:				
Agree	8 (53.33%)	0	Chi square test	<0.0001
No opinion either way	6 (40.00%)	1 (6.67%)		
Disagree	1 (6.67%)	7 (46.67%)		
Strongly disagree	0	7 (46.67%)		
Appearance of hair:				
Somewhat better	2 (13.33%)	0	Chi square test	0.03
A little better	8 (53.33%)	2 (13.33%)		
Same	4 (26.67%)	10 (66.67%)		
A little worse	1 (6.67%)	3 (20.00%)		
Hair growth:				
Greatly increase	1 (6.67%)	0	Chi square test	0.001
Moderately increase	10 (66.67%)	0		
Slightly increases	1 (6.67%)	6 (40.00%)		
No change	3 (20.00%)	7 (46.67%)		
Slightly decrease	0	2 (13.33%)		
Slowing down hair loss:				
Very effective	5 (33.33%)	0	Chi square test	0.001

Somewhat effective	8 (53.33%)	2 (13.33%)		
Not very effective	1 (6.67%)	8 (53.33%)		
Not effective at all	1 (6.67%)	5 (33.33%)		
Satisfaction about hairline at the front of the head:				
Very satisfied	0	0		
Satisfied	7 (46.67%)	0	Chi square test	0.001
Neutral	5 (33.33%)	3 (20.00%)		
Dissatisfied	3 (20.00%)	2 (13.33%)		
Very dissatisfied	0	10 (66.67%)		
Satisfaction about hair on the top:			Chi square test	<0.0001
Very satisfied	0	0		
Satisfied	0	0		
Neutral	5 (33.33%)	0		
Dissatisfied	10 (66.67%)	0		
Very dissatisfied	0	10 (66.67%)		
	0	5 (33.33%)		
Hair overall satisfaction:			Chi square test	<0.0001
Very satisfied	0	0		
Satisfied	5 (33.33%)	0		
Neutral	7 (46.67%)	0		
Dissatisfied	3/15 (20%)	10 (66.67%)		
Very dissatisfied	0	5 (33.33%)		

* P value <0.05 was significant.

Table 7: Comparison between the study groups according to investigator assessment.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Moderately increased	1 (6.67%)	0	Chi square test	0.007
Slight increased	9 (60.00%)	1 (6.67%)		
No change	4 (26.67%)	13 (86.67%)		
Slight decreased	1 (6.67%)	1 (6.67%)		

* P value <0.05 was significant.

Table 8: Local side effects reported in the study groups.

Variables	Group 1 (n=15)	Group 2 (n=15)	Statistical test	*P value
Pain	13 (86.67%)	10 (66.67%)	Fisher exact test	0.39
Headache	2 (13.33%)	0	Fisher exact test	0.48
Itching	5 (33.33%)	0	Fisher exact test	0.04

*P value <0.05 was significant.

Table 9: Hormonal level before and after treatment in group 1 (n=15).

Variables	Before	After	Change	Change percent	Statistical test	*P value
Total Testosterone (ng/ml):						
Mean ± SD	5.36±1.02	5.50±0.96	0.15±0.59	2.6%	Paired sample t test	0.36
Median (range)	5.3 (3.8-7.3)	5.8 (4-7.4)	0.2 ([-0.9]-1.5)			
Dihydrotestosterone (pg/ml):						
Mean ± SD	381.6±131.85	359.6±146.23	[-22]±40.60	5.3%	Wilcoxon Signed Rank test	0.06
Median (range)	399 (215-700)	299 (200-720)	[-6] ([-199]-20)			

* P <0.05 was significant.