Results

RESULTS

In patients of group I, the age ranged from 19 to 41 years (mean \pm S.D. = 26.4 \pm 6.0). In group II, the age ranged from 20 to 30 years (mean \pm S.D. = 24.9 \pm 3.7). The age in group III ranged from 20 to 35 years (mean \pm S.D. = 25.6 \pm 5.4). Comparison of the age between the studied groups revealed insignificant mean values (p > 0.05) (table-1, chart – 1).

Table (1): Comparison between the studied groups as regards the age.

Age	Mean	Test of significance ± S.D			
St. gps	\overline{X}	18.0	gp.	Ť	р
I. Laser	26.4	± 6.0	I _{vs} II	0.663	> 0.05
II. Antiand.	24.9	± 3.7	II _{vs} III	0.323	> 0.05
III. Both	25.6	± 5.4	I _{vs} III	0.315	> 0.05

P > 0.05 i.e. insignificant.

The duration of hirsutism in group I (20 cases) ranged from 2 to 10 years. Comparison between cases with duration less than 5 years (8 cases) and cases with 5 years duration or more (12 cases) before treatment as regards frequency of hair removal per month revealed insignificant mean values (P > 0.05) (Table-2, Chart-2). After treatment, comparison between the same subgroups revealed insignificant mean values after 3, 6 and 12 months of laser treatment (table 3, Chart. 3).

Table (2): Comparison between cases with duration of hirsutism less than 5 years and cases with 5 years duration or more in group I as regards frequency of hair removal per month before therapy.

FHR/m	Mean	± S.D.			
gp. I (20 cases).	\overline{X}				
Less than 5 y (8 cases)	8.1	± 3.7			
-5 y or more (12 cases)	7.3	± 2.7			
. t	0.525				
P	> 0.05				

P > 0.05 i.e. insignificant

Table (3): Comparison between cases with duration of hirsutism less than 5y and cases with 5 y duration or more in group I (20 cases) as regards FHR/m after laser therapy.

FHR/m	Less than 5 y		5 y or more		Test of significance	
gp. I				-	t	P
5 P* -	$\overline{\overline{X}}$	±S.D	X	±S.D	ı	
3 ms	3.3	±1.0	3.5	± 0.9	0.455	> 0.05
6ms	2.2	±1.2	1.9	± 1.1	0.566	> 0.05
12ms	1.6	±1.1	1.4	± 1.0	0.412	> 0.05

P > 0.05 i.e. insignificant

Menstrual cycles were regular in group I. There were menstrual irregularities in group II in 2 cases (25%) and 2 cases in group III (25%). These irregularities were normalized after treatment (table 4).

Table (4): Menstrual irregularities before and after treatment in the studied groups.

Studion B.		
No. of cases	Before treatment	After treatment
St. gps.		Normalizad
I-Antiand.	2 cases (amenorrhoea)	Normalized
	1 case (amenorrhoea)	Normalized
II-Antiand. & laser	1 case (menorrhagea)	Normalized

Cases received laser treatment in group I (20 cases) showed 12 cases (60%) with normal ultrasonographic findings (i.e. idiopathic hirsutism) and 8 cases (40%) with PCOS. Comparison between the 2 subgroups as regards frequency of hair removal per month before treatment revealed insignificant results (P > 0.05) (Table-5, chart-4). Comparison between the 2 subgroups as regards frequency of hair removal per month after 3, 6 and 12 months of laser therapy revealed insignificant mean values (P > 0.05) (Table 6, chart 5).

Table (5): Comparison between idiopathic hirsute cases and cases with PCOS in group I as regards FHR/m before treatment.

fi Otterman				
FHR/m	Mean \overline{X}	± S.D.		
gp. I Idiopathic (12 cases)	8.0	± 2.9		
PCOS (8 cases)	7.0	± 3.2		
t p	0. 669 > 0.05			
р	>	0.03		

P > 0.05 i.e. insignificant

Table (6): Comparison between idiopathic hirsute cases (12 cases) and cases with PCOS (8 cases) in group I as regards FHR/m after treatment.

FHR/m	Normal U/S		PCOS		Test of significance	
	\overline{x}	± S.D	\overline{X}	± S.D	T	P
gp. I 3 ms	3.3	± 0.9	3.5	± 0.9	0.486	> 0.05
6ms	1.9	± 1.1	2.1	± 1.2	0.377	> 0.05
12ms	1.4	± 0.7	1.7	± 1.4	0.561	> 0.05

P > 0.05 i.e. insignificant

Frequency of hair removal in group I ranged from 4 to 12 per month (mean \pm S.D = 7.6 \pm 3.1). In group II, it ranged from 4 to 24 per month (mean \pm S.D = 11 \pm 8.2). In group III, it ranged from 4 to 12 per month (mean \pm S.D. = 8 \pm 3.0). Comparison between the studied groups as regards the frequency of hair removal per month before treatment revealed insignificant mean values (P > 0.05) (Table 7, chart – 6).

Table (7): Comparison between the studied groups as regards frequency of hair removal per month before treatment.

FHR/m.	Mean value	±S.D.	Test of significance		
St. gps.	\overline{X}		gp.	t	p
I. Laser	7.6	± 3.1	I _{vs} II	1.62	> 0.05
<u> </u>	11.0	± 8.2	II _{vs} III	0.96	> 0.05
II. Antiand.	8.0	± 3.0	I _{vs} III	0.31	> 0.05
III. Both	0.0	± J.0			

P > 0.05 i.e insignificant

Laser therapy (group I) revealed significant decrease in frequency of hair removal per month after 3, 6 and 12 months (P < 0.01) (Table 8, chart -7).

Table (8): Effect of laser therapy on frequency of hair removal/m in group I (20 cases).

FHR/m	Before treatment	After treatment	Paired t	P
gp. I	\overline{X} ± S.D	\overline{X} ±S.D		
3 ms	7.6 ±3.10	3.7 ± 0.94	6.15	< 0.01
6ms	7.0	2.0 ± 1.15	9.33	<0.01
12ms		1.5 ± 1.01	8.52	< 0.01

P < 0.01 i.e. highly significant.

Antiandrogen therapy (CPA / Diane) revealed insignificant decrease in the mean values of frequency of hair removal per month in group II after 3 months (P > 0.05), and significant decreases in the mean values after 6 and 12 months (P < 0.05) (table 9, chart 8).

Table (9): Effect of antiandrogen on frequency of hair removal/m in group II (8 cases).

Before treatment		After treatment		Paired t	P
\overline{X}	± S.D	\overline{X}	±S.D		l
11	± 8.21	8.0	±3.0	1.53	> 0.05
		4.0	± 0.0	2.41	<0.05
-		2.5	± 0.9	2.84	< 0.05
	tre	$\frac{\text{treatment}}{\overline{X}} \pm \text{S.D}$	treatment treatment \overline{X} \pm S.D \overline{X} 11 \pm 8.21 8.0 4.0	treatment treatment $\overline{X} \pm \text{S.D}$ $\overline{X} \pm \text{S.D}$ 11 ± 8.21 8.0 ± 3.0 4.0 ± 0.0	treatment treatment t $ \overline{X} \pm S.D \overline{X} \pm S.D $ $ 11 \pm 8.21 8.0 \pm 3.0 1.53 $ $ 4.0 \pm 0.0 2.41 $

P > 0.05 i.e. insignificant P < 0.05 i.e. significant

The frequency of hair removal per month in group III who received laser and antiandrogen showed significant decrease in the mean values after 3, 6 and 12 months of therapy (P < 0.01) (Table 10, chart 9).

Table (10): Effect of laser and antiandrogen on frequency of hair removal /m in group III (8 cases).

FHR/m	Before	treatment	After to	eatment	Paired	P
gp. III	\overline{X}	± S.D	X	± S.D	t	
3ms	8.0	± 3.2	3.5	± 0.93	5.46	< 0.01
6ms		<u>,</u>	1.4	± 0.67	7.22	< 0.01
12ms			0.75	± 0.27	7.22	< 0.01

P < 0.01 i.e highly significant

After 3 months of treatment, we compared the mean value of FHR/m between the studied groups. This comparison revealed significant differences between group I vs II (mean \pm S.D. = 3.4 ± 0.94) (p < 0.01), and II vs III (mean \pm S.D.= 8 ± 3.02) (p < 0.01). This difference was insignificant between group I vs III (mean \pm S.D. = 3.5 ± 0.92) (p > 0.05) (table 11, Chart-10).

Table (11): Comparison between the studied groups as regards frequency of hair removal/m after 3 months of treatment.

FHR/m	Mean		Tes	t of significa	nce
St. gp.	\overline{X}	± S.D.	gp.	t.	р
I-laser	3.4	± 0.94	I _{vs} II	6.238	< 0.01
II-Antiand.	8.0	± 3.02	II _{vs} III	4.025	< 0.01
III-Both	3.5	± 0.92	I _{vs} III	0.255	> 0.05

P < 0.01 i.e highly significant

P > 0.05 i.e. insignificant

After 6 months of therapy, we compared the mean values of frequency of hair removal per month between the studied groups. This comparison revealed significant difference between group I vs II (mean \pm

S.D = 2.02 ± 1.5) (P < 0.01), group II vs III (mean \pm S.D. = 4 ± 0.00) (P < 0.01). This difference was insignificant between group I vs III (mean \pm S.D. = 1.4 ± 0.67) (P > 0.05) (Table 12, Chart 11).

Table (12): Comparison between the studied groups as regards frequency of hair removal / m after 6 months of treatment.

FHR/m	\overline{x}	± S.D.	Te	nce	
St. gp			gp.	t.	р
I-Laser	2.02	± 1.15	I _{vs} II	4.780	< 0.01
II-Antiand.	4.00	±0.00	II _{vs} III	11.112	< 0.01
III-Both	1.4	±0.67	I _{vs} III	1.484	> 0.05

P < 0.01 i.e highly significant

P > 0.05 i.e. insignificant

After 12 months of therapy, we compared the mean values of frequency of hair removal per month between the studied groups. This comparison revealed significant difference between group I vs II (mean \pm S.D. = 1.5 \pm 1.02) (P < 0.05), group II vs III (mean \pm S.D. = 2.5 \pm 0.93) (P < 0.01) and group I vs III (mean \pm S.D. = 0.75 \pm 0.27) (P < 0.05) (Table 13, Chart 12)

Table (13): Comparison between the studied groups as regards frequency of hair removal/m after 12 months of treatment.

FHR/m	Mean	± S.D.	Test of significance		
St.gp.	\overline{X}		gp.	t.	p
I- Laser	1.5	± 1.02	I _{vs} II	2.402	< 0.05
II-Antiand.	2.5	± 0.93	II _{vs} III	5.137	< 0.01
III-Both	0.75	± 0.27	I _{vs} III	2.032	< 0.05

P < 0.05 i.e. significant

P < 0.01 i.e. highly significant

Side effects of laser treatment in group I and III (28 cases) were hyperpigmentation in 6 cases (21.2%), transient burning sensation in 2 cases (7.2%) and in 20 cases (71.6%) there were no side effects. (Table 14).

Table (14): Side effects of laser among cases of group I and group III (28 cases).

Side effects	Burning sensation		Hyperpigmentation		No side effects		Total	
St. gp	No No	80011 %	No	%	No	%	No	%
gp I and III	2	7.2	6	21.2	20	71.6	28	100.0

No i.e. number

Side effects of antiandrogen in group II and III (16 cases) were headache in 4 cases (25%), irregular bleeding in 4 cases (25%), increased body weight in 4 cases (25%) and nausea in 4 cases (25%). No side effects were observed in 6 cases (37.5%). (Table 15).

Table (15): Side effects of antiandrogen among cases of group II and group III (16 cases).

St. gp	Group II and III			
Side effects	No	%		
Headache	4	25%		
Irregular bleeding	4	25%		
Nausea	4	25%		
Weight gain	4	25%		
No side effects	6	37.5%		

No i.e. number

Table (A): clinical data of hirsute cases

No.	Age (y)	Martial	Duration (y)		Menstr.H	Family H
	7.9- (),	Status	(,,		, ,	
1	20.00	unm.	3	4	1	+
2	20.00	unm.	2	4	1	-
3	41.00	m.	5	8	1	+
4	27.00	unm.	9	8	1	-
5	29.00	m.	6	11	1	+
6	34.00	m.	7 .,	12	1	_
7	23.00	unm.	5	12	. 1	+
8	32.00	m.	7	4	1	-
9	22.00	m.	10	4	1	+
10	25.00	unm.	9	8	. 1	-
11	20.00	unm.	3	4	1	+
12	20.00	unm.	2 6	9	11	-
13	31.00	m.		8	1	+
14	27.00	unm.	9	8	11	-
15	19.00	m.	6	8	1	+
16	34.00	m.	5 5	12	11	-
17	23.00	unm.		12	1	+
18	32.00	m.	7	4	1	
19	24.00	m.	10	4	11	+
20	25.00	unm.	9	8	11	-
21	22.00	m.	5	8	11	+
22	28.00	m.	4	4	1	+
23	24.00	m.	4	8	1	+
24	20.00	unm.	9	24	2	+
25	22.00	m.	5	8	1	+
26	30.00	m.	4	4	1	+
27	24.00	m.	4	8	1	+
28	29.00	unm.	3	24	2	+
29	20.00	unm.	2	12	1	-
30	22.00	unm.	8	8	2	+
31	20.00	unm.	10	. 8	1	_
32	28.00	unm.	2	4	1	+
33	30.00	unm.	7	12	11	-
34	22.00	unm.	8	8	2	+
35	35.00	unm.	6	8	1	-
36	28.00	unm.	2	4	1	+

Marrital status :

menstrual history:

m = married

1 = Normal menstruation

unm = unmarried

2 = Menstrual irregularities

Family History:

(+) = Positive

(-) = Negative

Table (B): Clinical data and hormonal parameters of hirsute cases							
No.	L.exam.	II/S	Free T. (n	17 OH	DHEAS	Allulosu	
NO.	L.CAGIII.	0,0	= 0.1 - 0.9	Prog. (n=	(n=40-	(n= 0.4-	2.8-29.2 ng/ml)
	<u>'</u>		ng/ml)	0.1-	400ng/ml)	4.5 ng/ml)	
				1.0ng/ml)			
	, <u> </u>	000	0.78	0.80	500.00	0.96	20.10
	5	pco N	0.90	1.00	400.00	1.92	17.20
2	5	рсо	0.81	0.78	400.00	0.96	16.70
3	5	N	0.76	0.61	100.00	3.50	15.10
4	0	N	0.81	1.00	80.00	0.90	12.20
5	0	N	0.67	0.20	200.00	3.40	12.20
6	1 0		0.37	1.00	460.00	0.70	12.20
7		pco N	0.25	0.80	300.00	1.00	10.60
8_	5		0.50	0.90	100.00	0.60	22.10
9	0	pco N	0.70	0.60	200.00	1.90	3,80
10	0		0.78	0.80	500.00	0.96	20.10
11	5	pco	0.90	1.00	400.00	0.96	17.20
12	0	N		0.78	400.00	1.40	18.10
13	,5	рсо	0.76	0.61	100.00	3.50	15.10
14	5	N	0.70	1.00	80.00	0.90	12.20
15	0	N	0.67	0.20	200.00	3.40	12.20
16	<u> </u>	N_		1.00	460.00	0.70	12.20
17	0	pco		0.80	300.00	1.00	10.60
18	5	N	0.25	0.90	100.00	2.60	22.10
19	0	pco		0.60	200.00	0.60	3.80
20	0	N	0.70	0.70	270.00	2.50	22.10
21	5	pco	4.00	0.69	250.00	1.50	15.50
22	5	pcc		0.80	240.00	2.00	15.50
23	5	N.	0.49	0.70	145.00	1.40	15.50
24	5	pcc	<u> </u>	0.70	170.00	2.50	22.10
25	5	pcc	4.00	0.69	150.00	0.90	15.50
26	5	pco		0.80	250.00	1.00	15.50
27	5	N	0.49		254.00	1.40	15.50
28	5	pc		0.70	17,0.00	1.60	20.10
. 29	5	N.	0.67	0.40	160.00	2.50	14.10
30	5	pc	<u> </u>	0.80	250.00	2,50	10.10
31	5	pc	0.45	0.70	70.00	0.80	6.70
32	. 0	рс		0.34	270.00	1.60	14.20
33	5	N	0.67	0.80		2.50	24.10
34	5	рс		0,90	90.00	2.50	12.10
35	5	рс		0.20	250.00	0.80	6.70
36		рс	0.45	0.84	270.00	0.00	<u> </u>

Local examination
0 = Hirsutism only

5 = Hirutism + Acne + Seborrhea.

U/S examination N = Normal U/S pco = Polycystic ovary

Table (C): Frequency of hair removal/m after 3,6, and 12 months of treatment

1 2.00 0.75 1.00 2 4.00 2.00 2.00 3 4.00 4.00 4.00 4 4.00 0.75 0.50 5 4.00 2.00 2.00 6 2.00 4.00 0.75 7 4.00 2.00 1.00 8 2.00 0.75 1.00 9 4.00 2.00 2.00 10 4.00 2.00 2.00 11 2.00 0.75 1.00 12 4.00 2.00 2.00 13 4.00 2.00 2.00 14 4.00 2.75 0.50 15 4.00 2.00 2.00 16 2.00 4.00 2.00 18 2.00 0.75 1.00 19 4.00 2.00 2.00 21 8.00 4.00 2.00 23 8.00	· 		- 6 T	12m
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35 4.00 0.75 0.50	34	4.00	2.00	1.00
	35	4.00	0.75	0.50
36 2.00 0.75 0.50	36	2.00		0.50

Table (D): Side effects of laser and antiandrogen

Tak	Table (D): Side effects of laser and and							
	No Laser			An	iandrogen			
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 	2	0.00			(
-	3 4	0.00						
1	4		0.00					
	5	0.00		 	1			
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	8	_	0.00	 -		-		
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ļ	21				5.00			
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		27 28			0.00			
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	 	3 <u>5</u>	10	.00	1 0.00			
		36	10	0.00 4.00				
	!							

Side effects of laser

0 = no side effects

1 = burning sensation

2 = hyperpigmentation.

Side effects of antiandrogen

0 = no side effects

1 = irregular bleeding

2= headache and increased body weight

3 = irregular bleeding and increased body weight

4 = headache and nausea

5= nausea and increased body weight

Chart. (1): comparison between the studied groups ragarding the age.

⊠GPI ⊠GPII ⊠GPIII

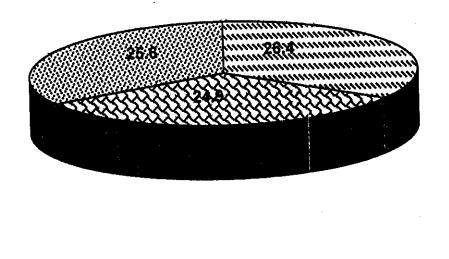
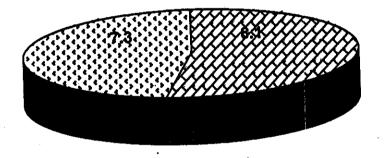


Chart (2): Comparison between cases with duration of hirsutism less than 5 years and 5 years or more in group I as regard FHR/m before treatment.



☑Less than 5y ☑5y or more

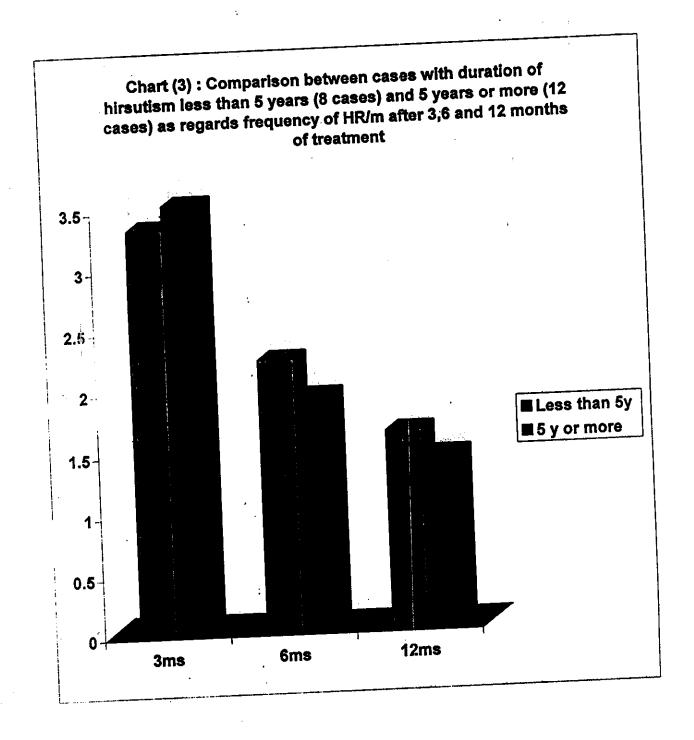
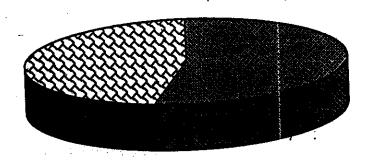


Chart (4): Comparison between idiopathic hirsute cases (12 cases) and cases with PCOS (8 cases) in group las regards FHR/m before treatment.



■ Idiopathic hirsute cases

☑PCOS (8 cases)

Chart (5): Comparison between Idiopathic hirsute cases and cases with PCOS in group I as regards FHR/m after 3, 6 and 12 months of laser therapy 3.5₇ 3 ■ Idiopathic cases (Mean) 2.5-PCOS (Mean) 2 1.5 0.5 12ms 6ms 3ms

