FIG. 1

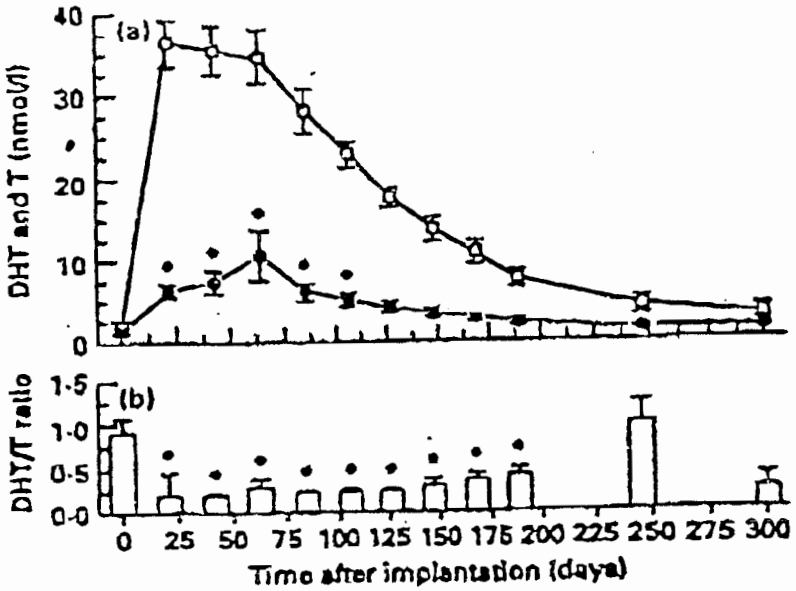

(a)
DHT and T (nmol/l)
40
30
20
10
0
(b)
DHT/T ratio
1·5
1·0
0·5
0·0
0 25 50 75 100 125 150 175 200 225 250 275 300
Time after implantation (days)

FIG. 2

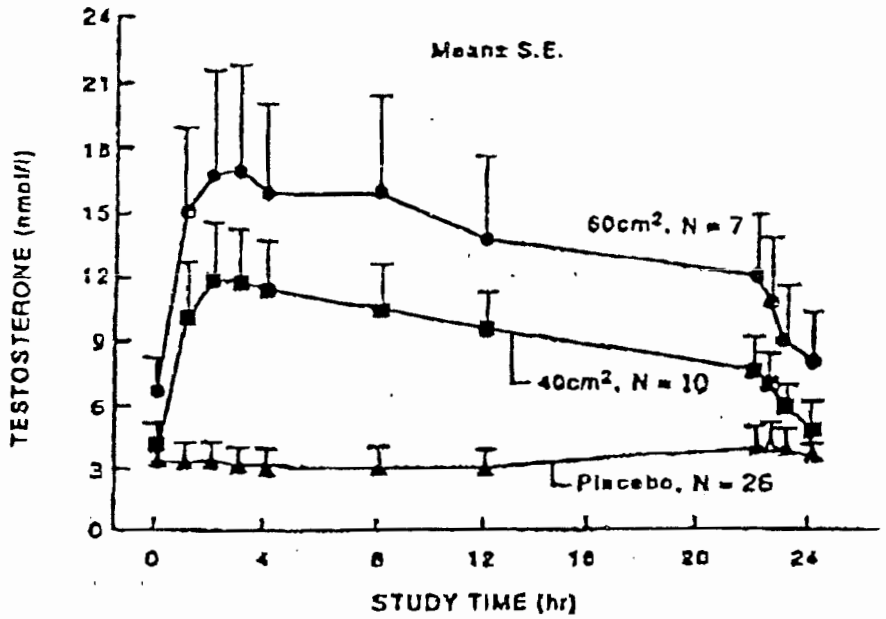

Means S.E.
TESTOSTERONE (nmol/l)
24
21
18
15
12
9
6
3
0
60cm², N = 7
40cm², N = 10
Placebo, N = 26
0 4 8 12 16 20 24
STUDY TIME (hr)

FIG. 3

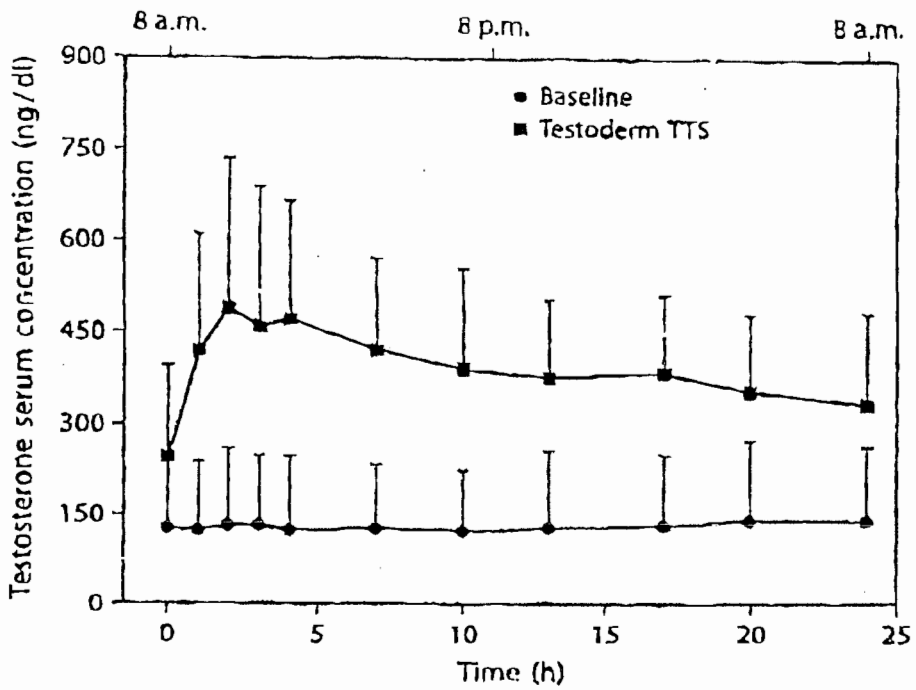

8 a.m.
8 p.m.
8 a.m.
Baseline
Testoderm TTS
Testosterone serum concentration (ng/dl)
900
750
600
450
300
150
0
0
5
10
15
20
25
Time (h)

FIG. 4

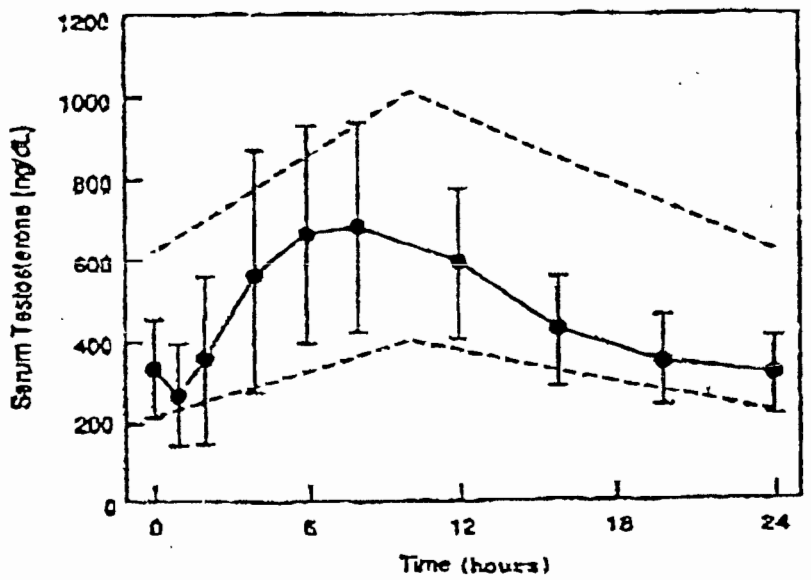

1200
1000
800
600
400
200
0
Serum Testosterone (ng/dL)
0
6
12
18
24
Time (hours)

FIG. 5(a)

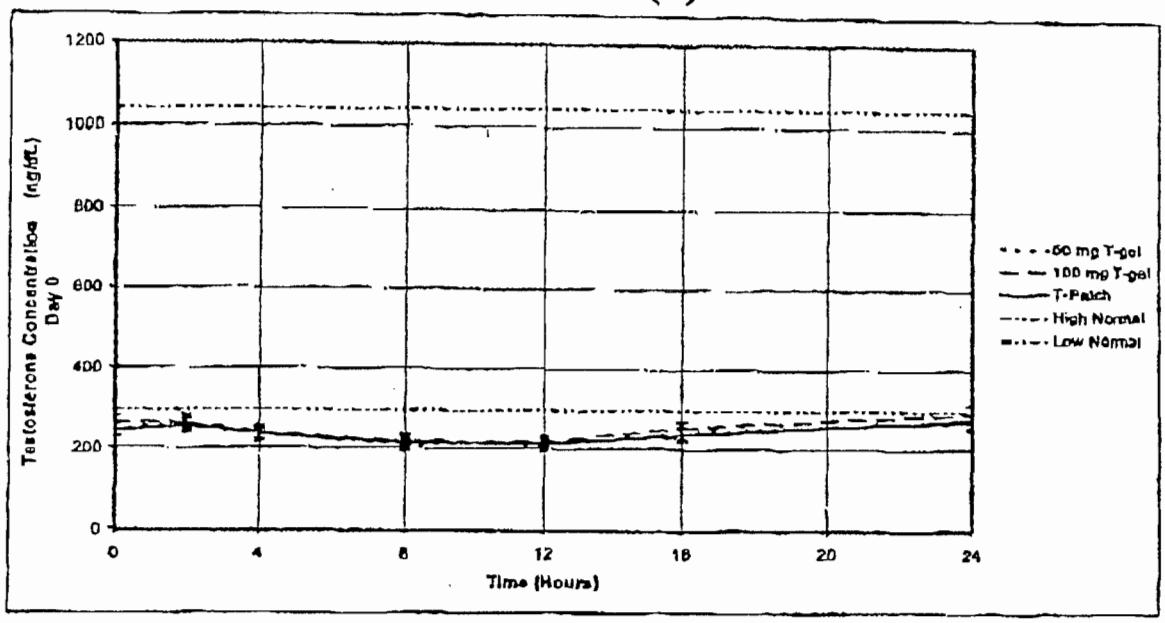

Testosterone Concentration (ng/dL)
Day 0
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 5(b)

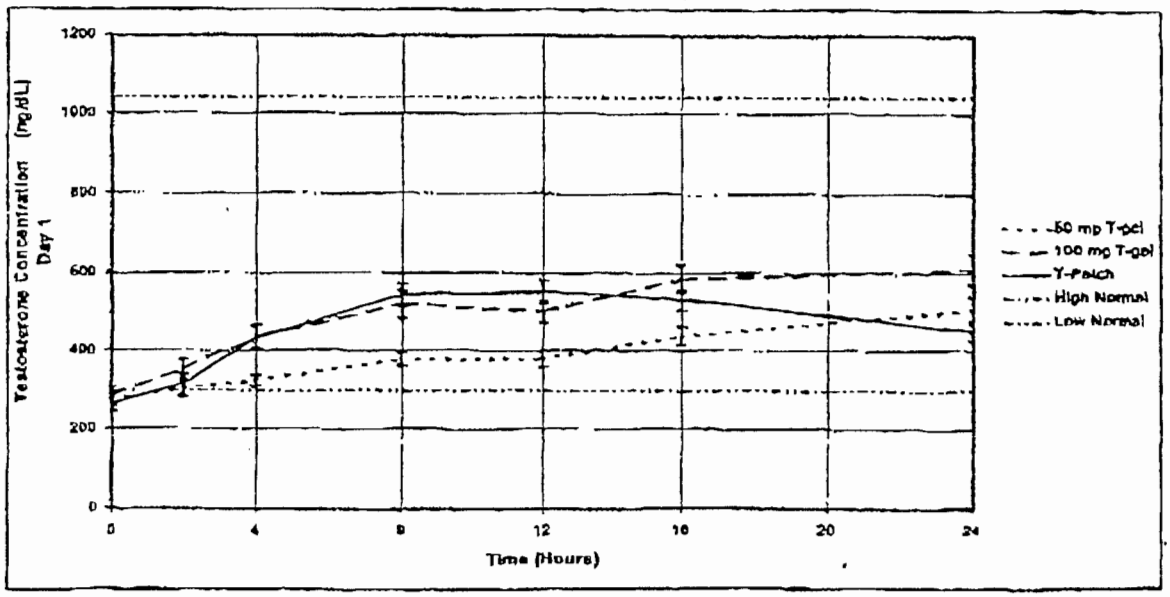

Testosterone Concentration (ng/dL)
Day 1
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 5(c)

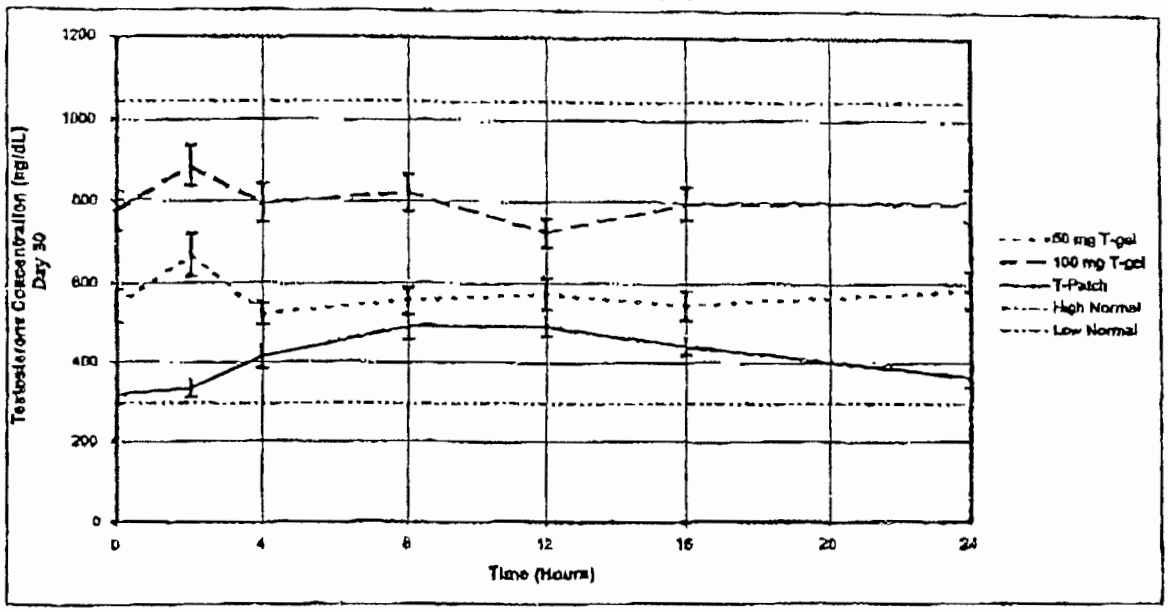

Testosterone Concentration (ng/dL)
Day 30
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 5(d)

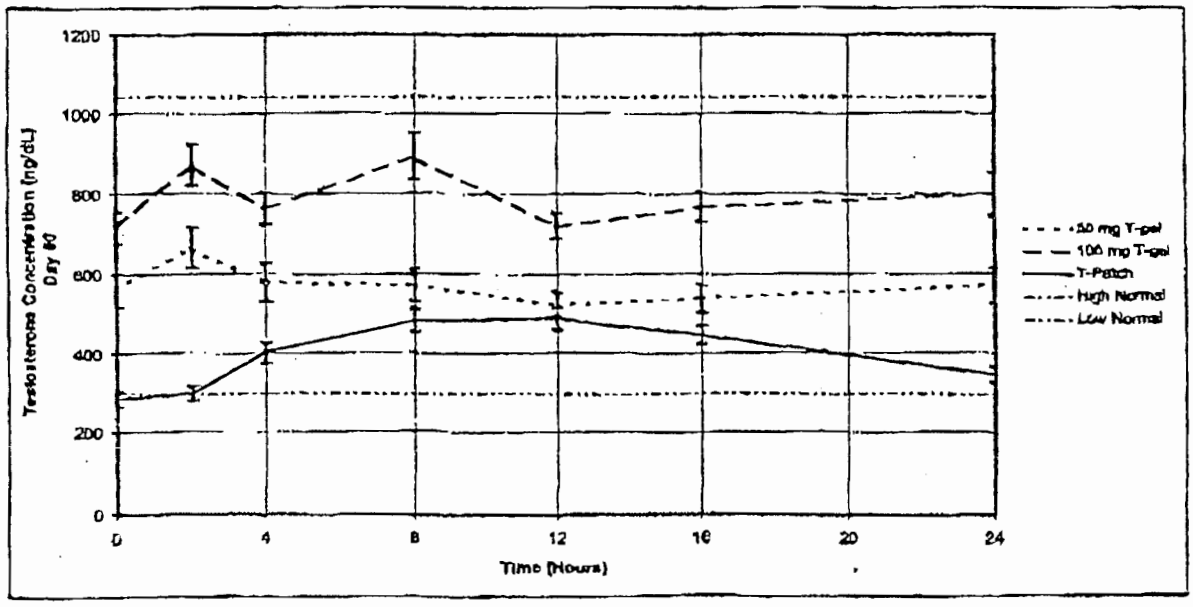

Testosterone Concentration (ng/dL)
Day 90
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 5(e)

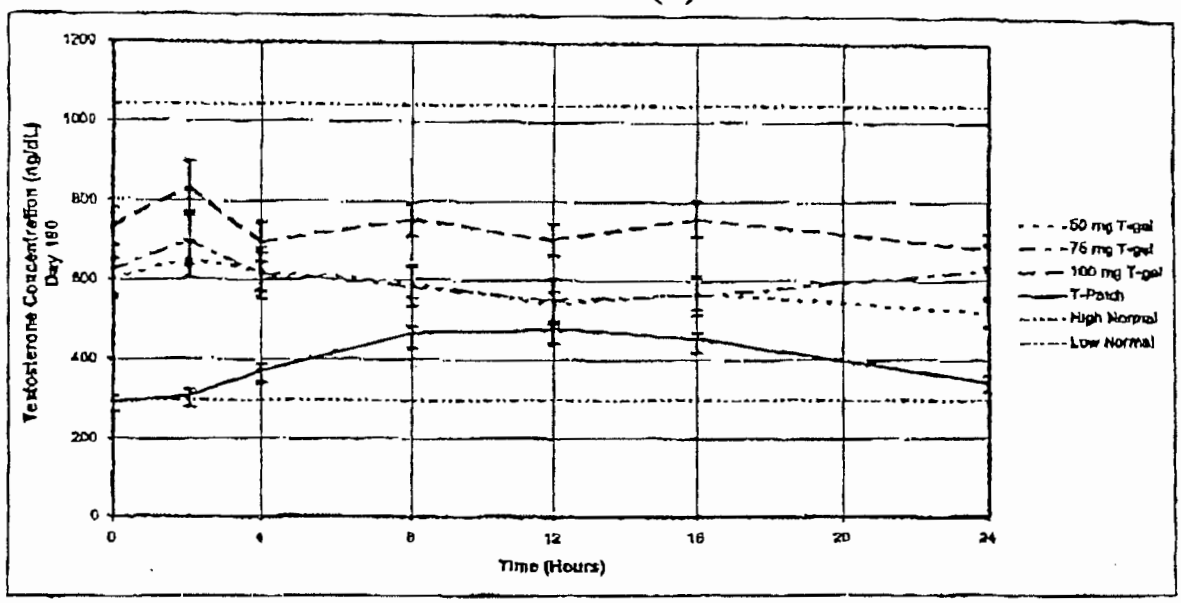

Testosterone Concentration (ng/dL)
Day 180
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
75 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 5(f)

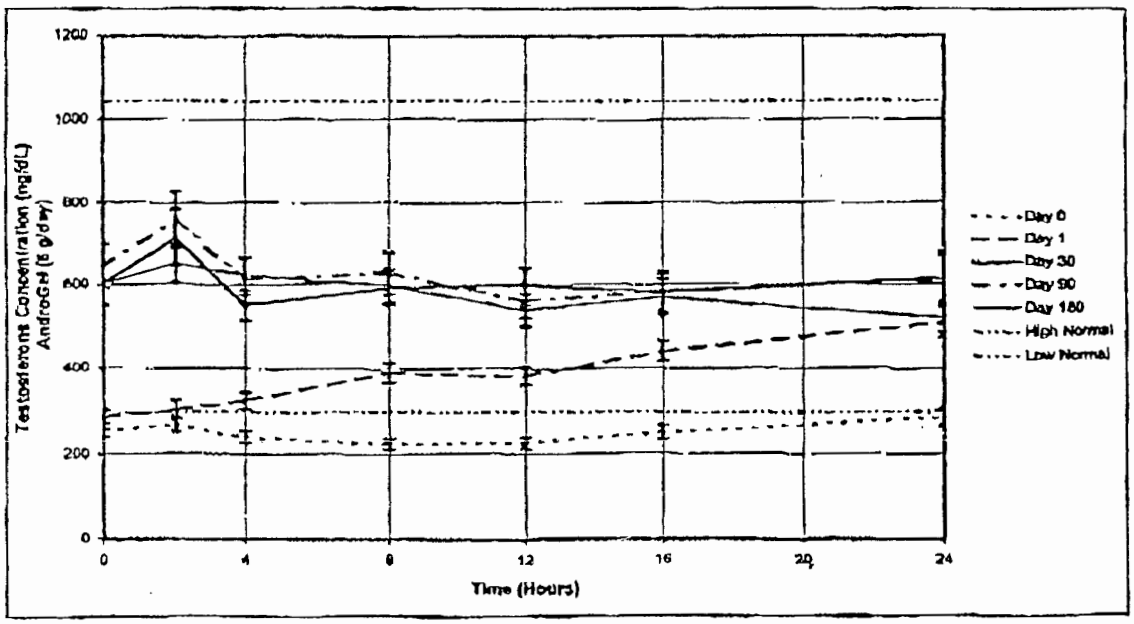

Testosterone Concentration (ng/dL)
AndroGel (5 g/day)
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
Day 0
Day 1
Day 30
Day 90
Day 180
High Normal
Low Normal

FIG. 5(g)

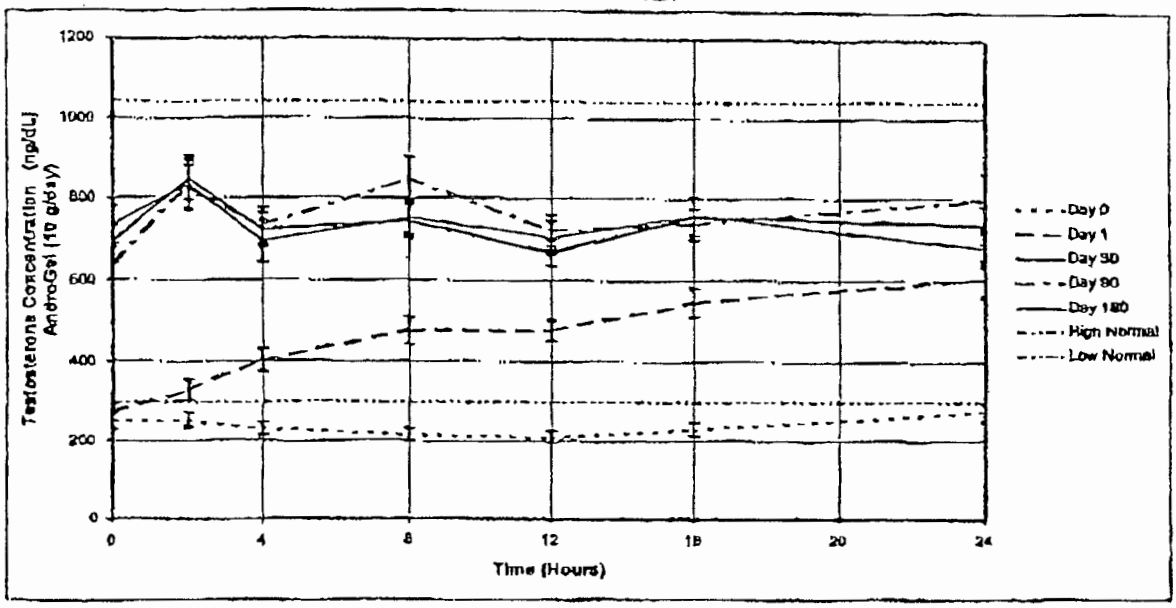

Testosterone Concentration (ng/dL)
AndroGel (10 g/day)
1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)
Day 0
Day 1
Day 30
Day 90
Day 180
High Normal
Low Normal

FIG. 5(h)

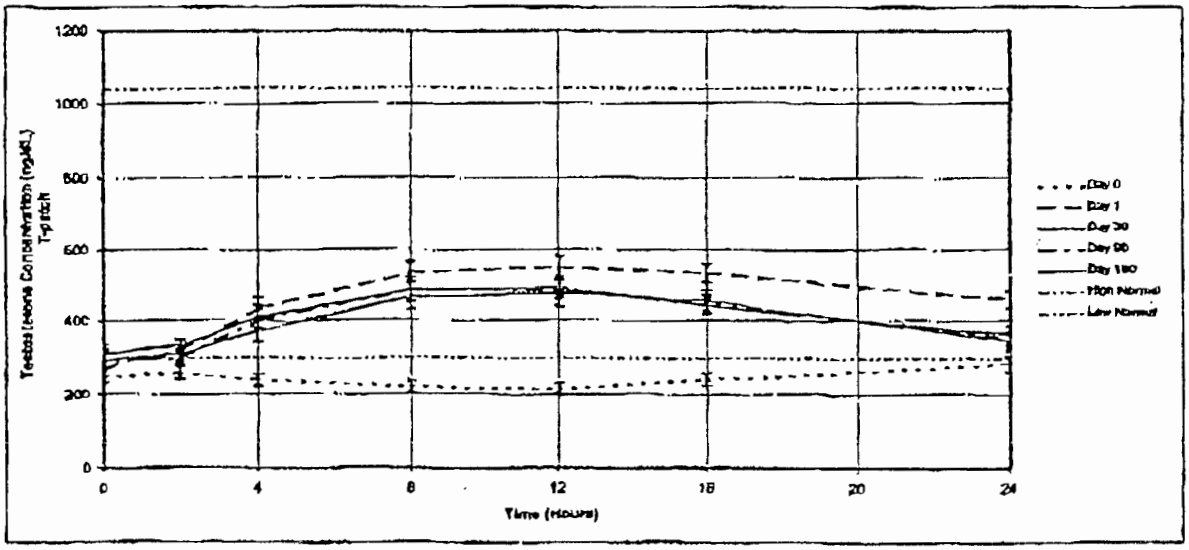

1200
1000
800
600
400
200
0
0
4
8
12
16
20
24
Time (Hours)

FIG. 6(a)

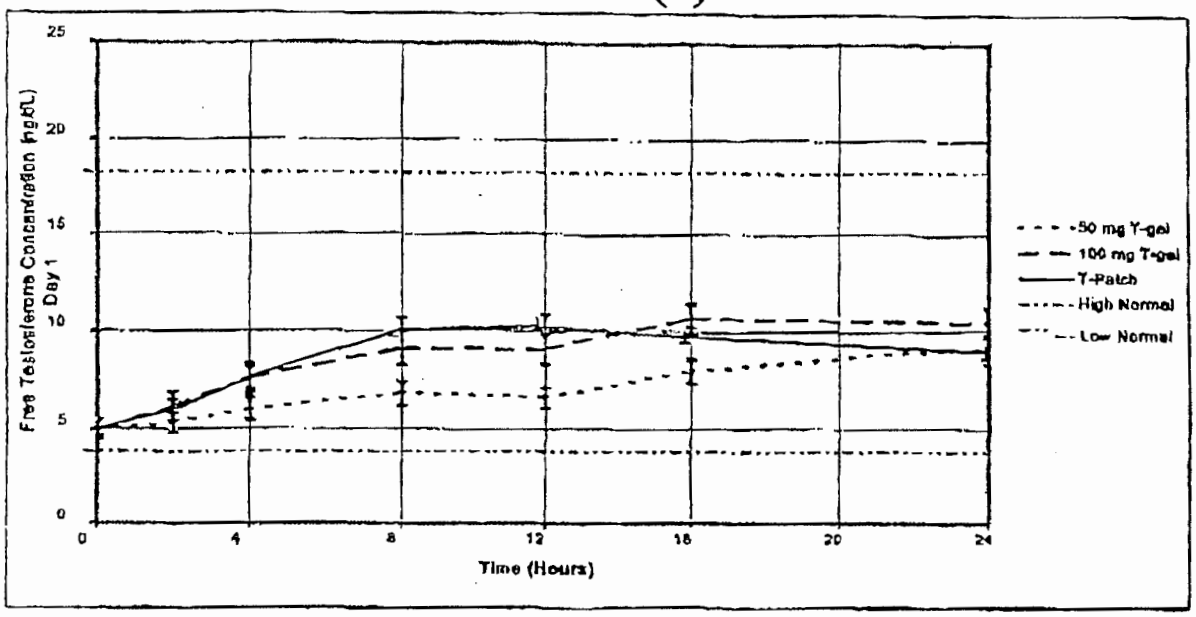

Free Testosterone Concentration (ng/dL)
Day 1
25
20
15
10
5
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 6(b)

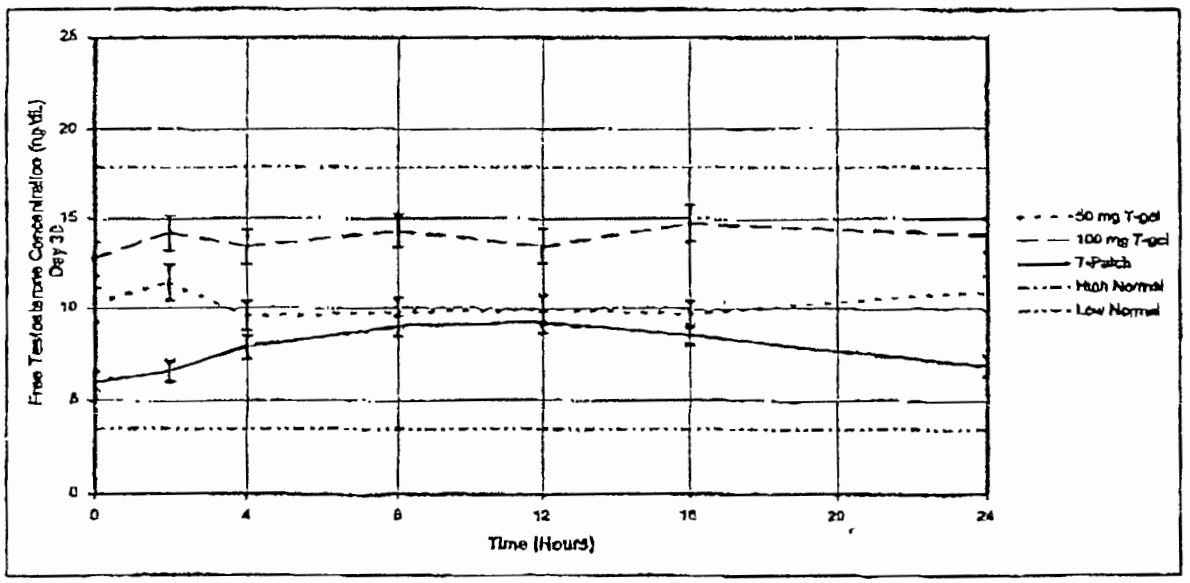

Free Testosterone Concentration (ng/dL)
Day 30
25
20
15
10
5
0
0
4
8
12
16
20
24
Time (Hours)
50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 6(c)

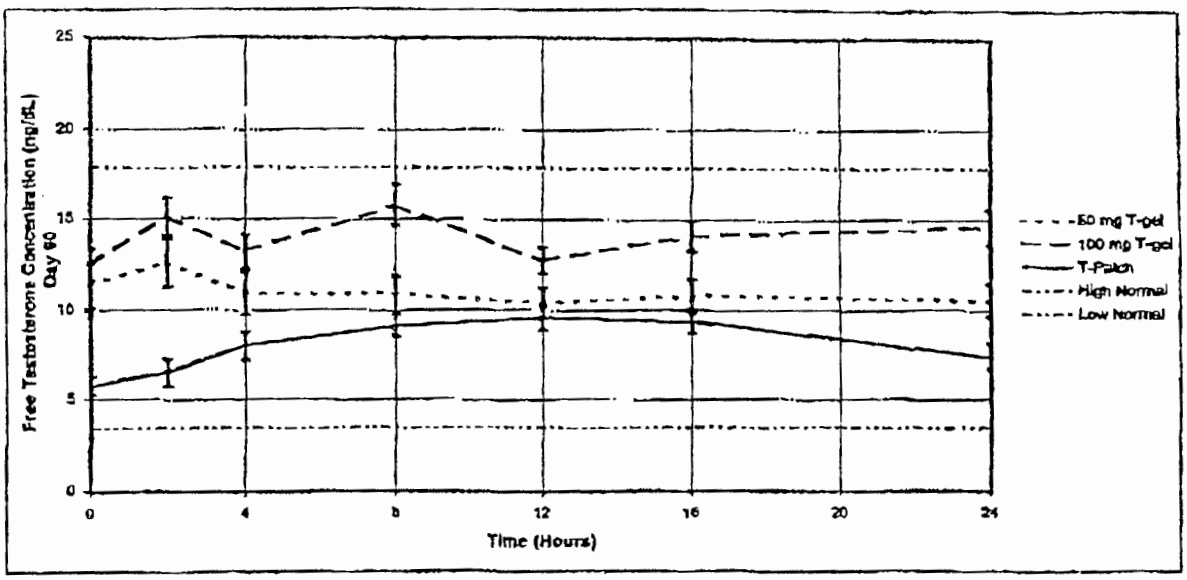

Free Testosterone Concentration (ng/dL)
Day 90
25
20
15
10
5
0
0
4
8
12
16
20
24
Time (Hours)
-50 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 6(d)

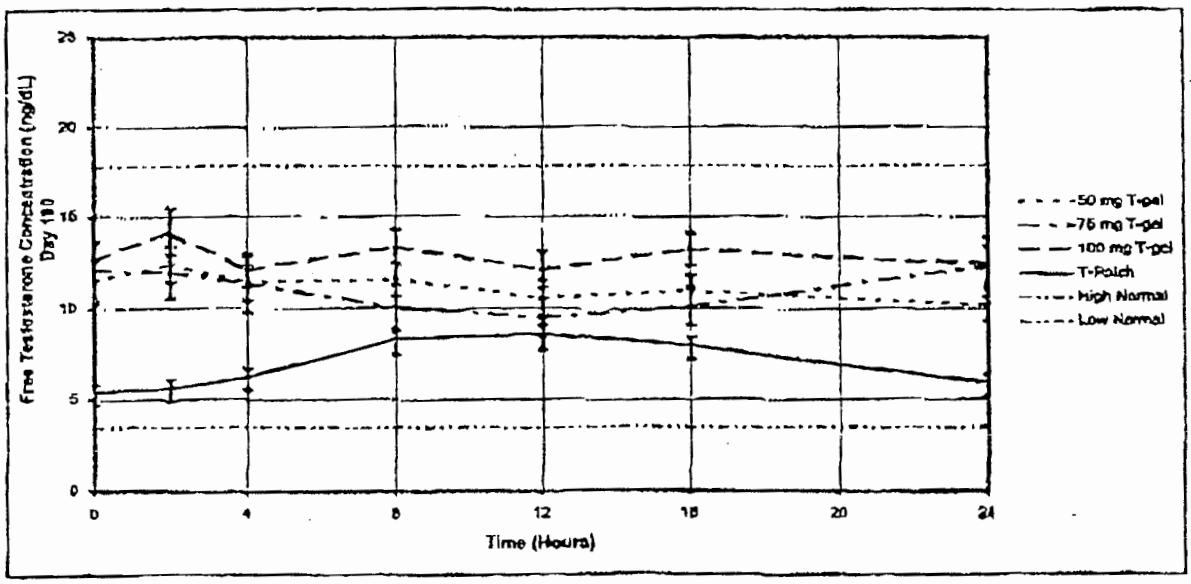

Free Testosterone Concentration (ng/dL)
Day 180
25
20
15
10
5
0
0
4
8
12
16
20
24
Time (Hours)
-50 mg T-gel
-75 mg T-gel
100 mg T-gel
T-Patch
High Normal
Low Normal

FIG. 6(e)

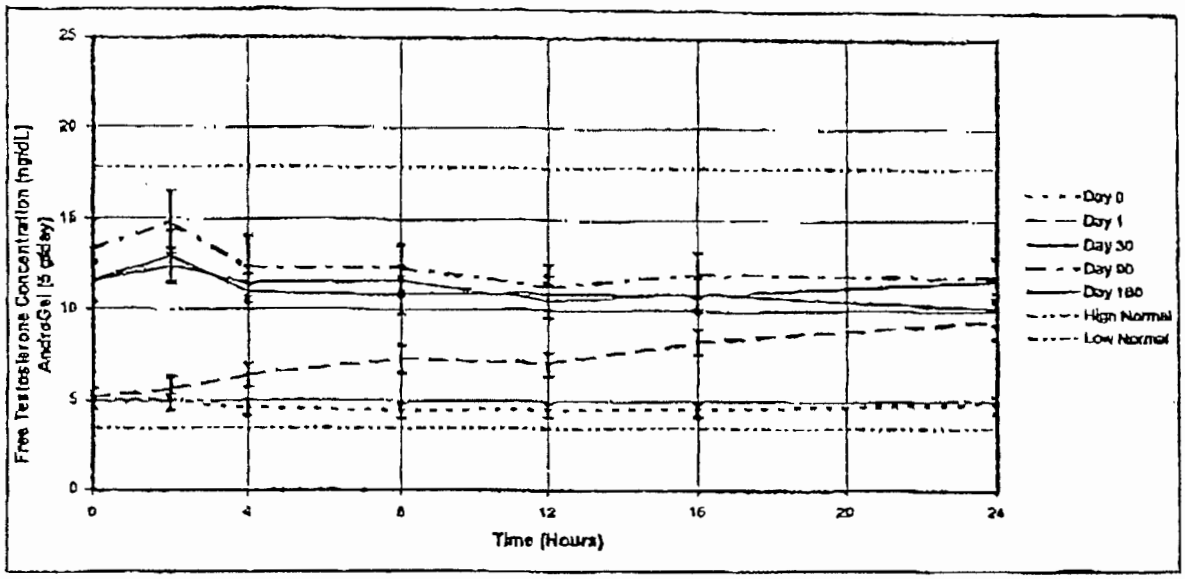

Free Testosterone Concentration (ng/dL)
AndroGel (5 g/day)
25
20
15
10
5
0
0
4
8
12
16
20
24
Time (Hours)
Day 0
Day 1
Day 30
Day 90
Day 180
High Normal
Low Normal

FIG. 6(f)

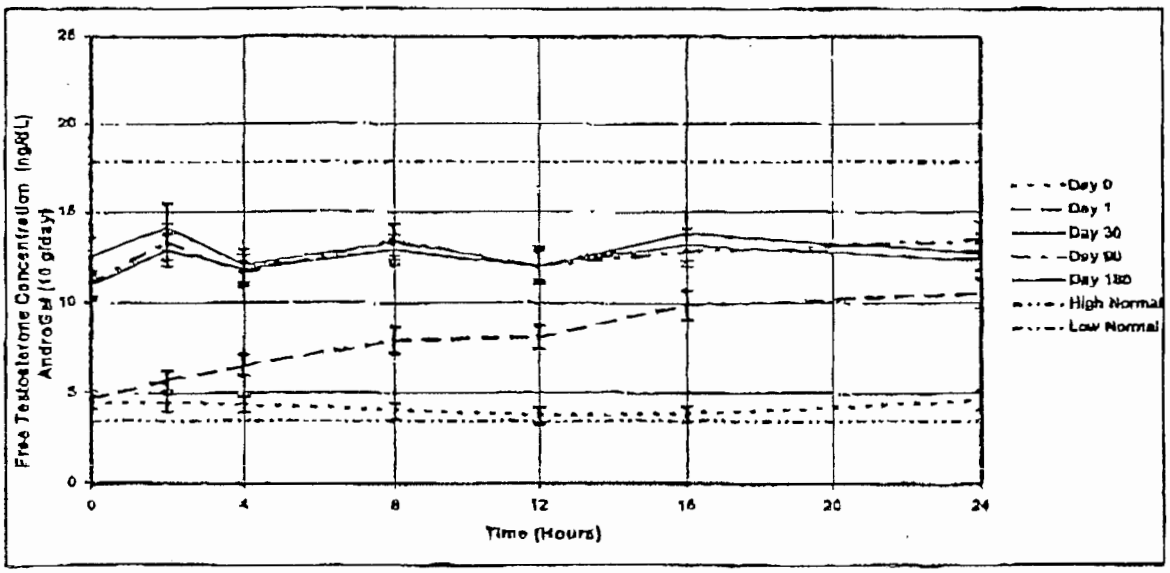

Free Testosterone Concentration (ng/dL)
AndroGel (10 g/day)
25
20
15
10
5
0
0
4
8
12
16
20
24
Time (Hours)
Day 0
Day 1
Day 30
Day 90
Day 180
High Normal
Low Normal

FIG. 6(g)

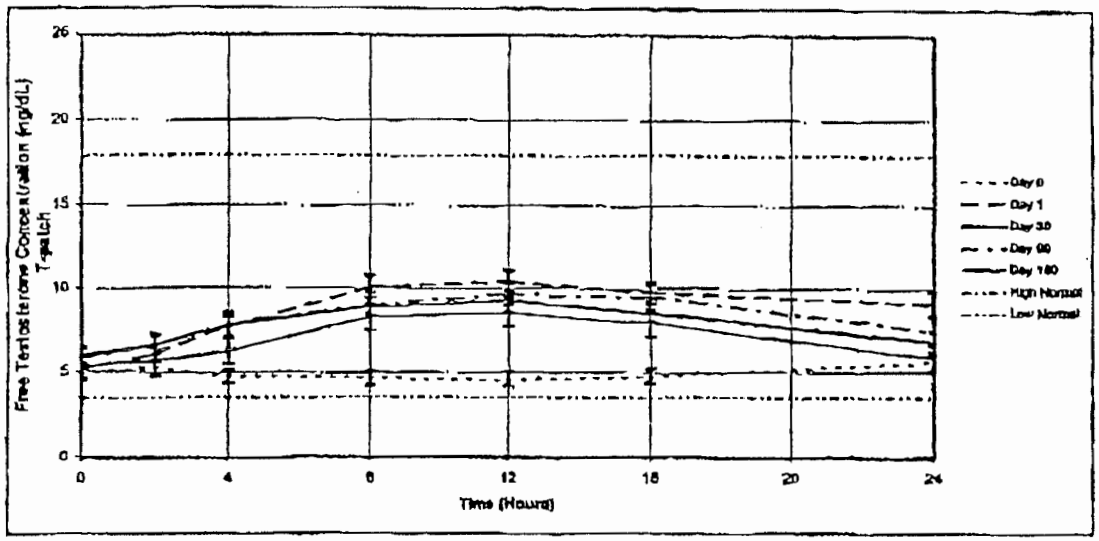

Free Testosterone Concentration (pg/dL)
T-patch
Time (Hours)
Day 0
Day 1
Day 30
Day 90
Day 180
High Normal
Low Normal

FIG. 7

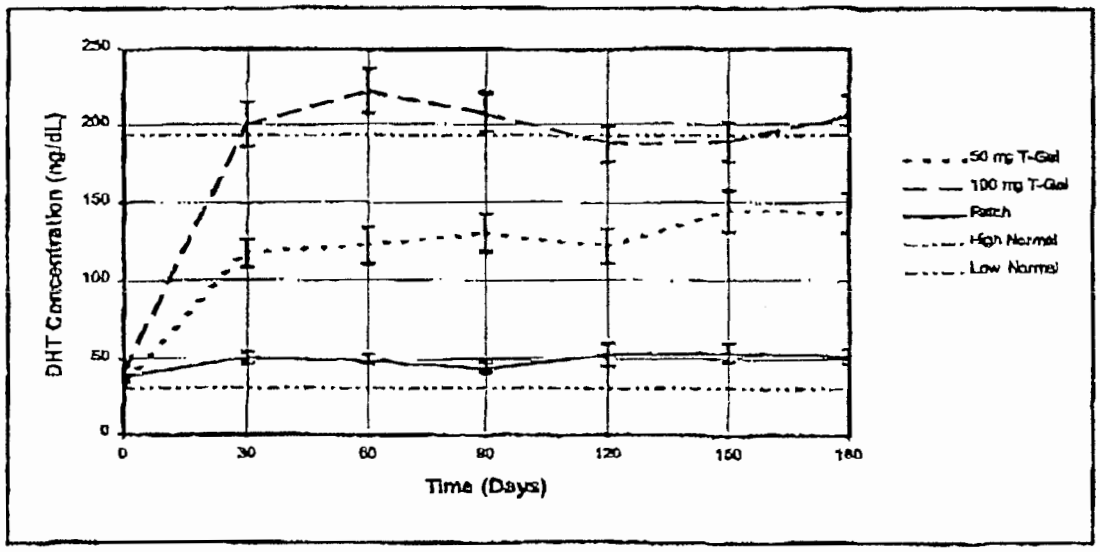

DHT Concentration (ng/dL)
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 8

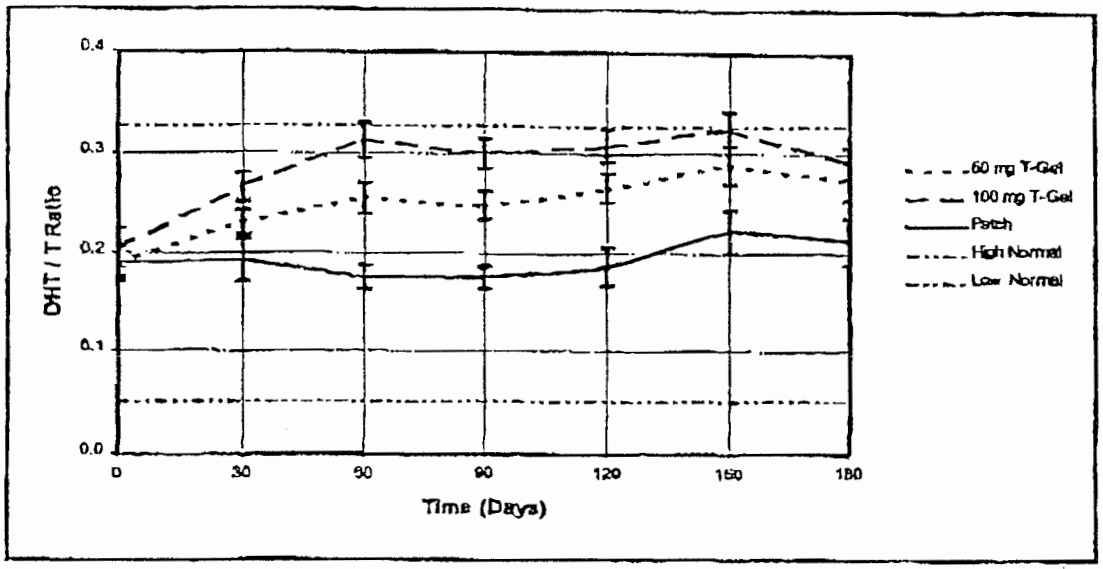

0.4
0.3
0.2
0.1
0.0
DHT / T Ratio
0
30
60
90
120
150
180
Time (Days)
60 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 9

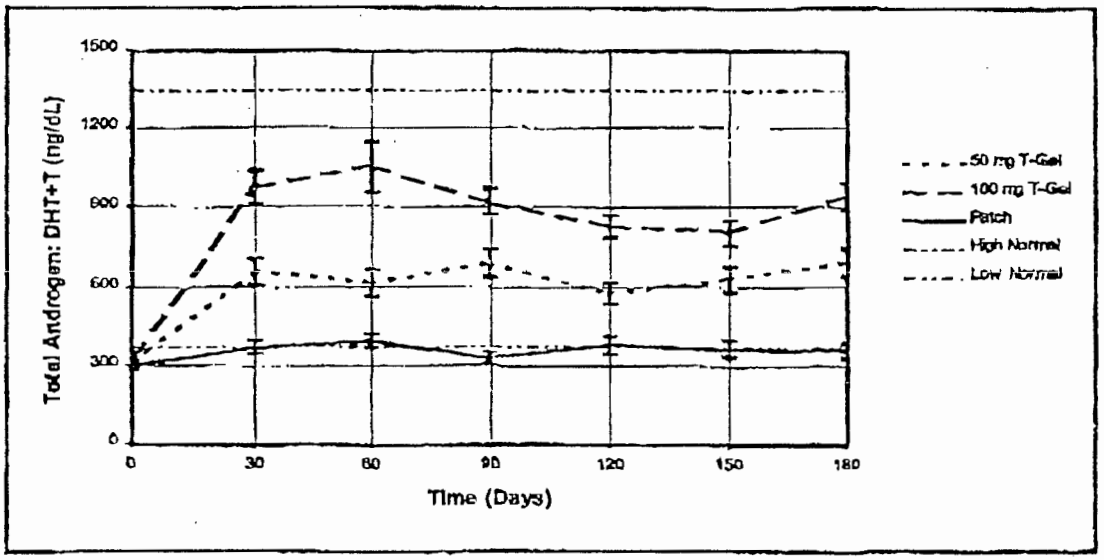

1500
1200
900
600
300
0
Total Androgen: DHT+T (ng/dL)
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 10

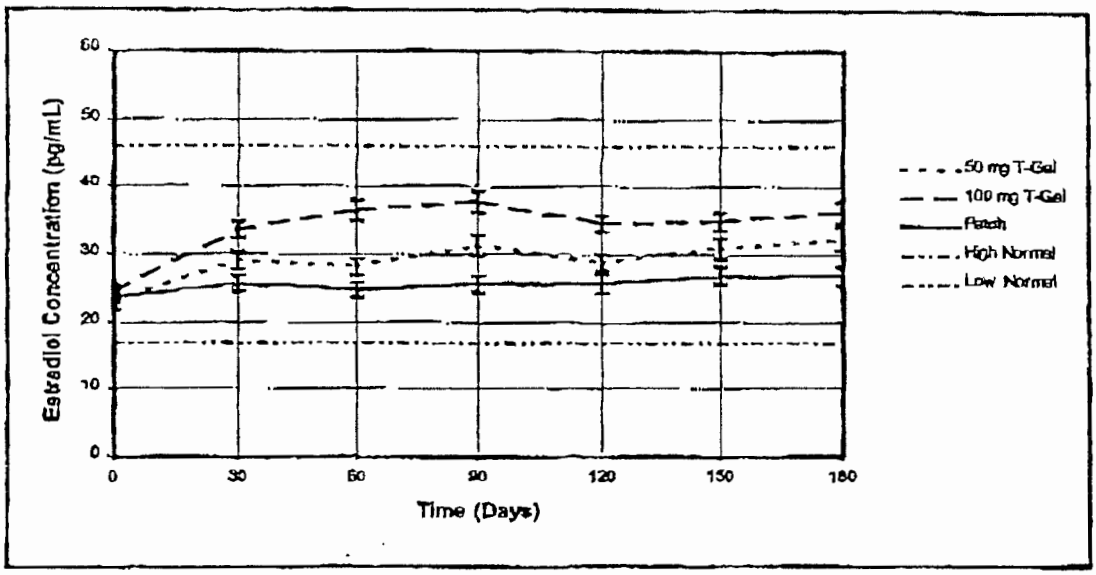

Estradiol Concentration (pg/mL)
60
50
40
30
20
10
0
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 11

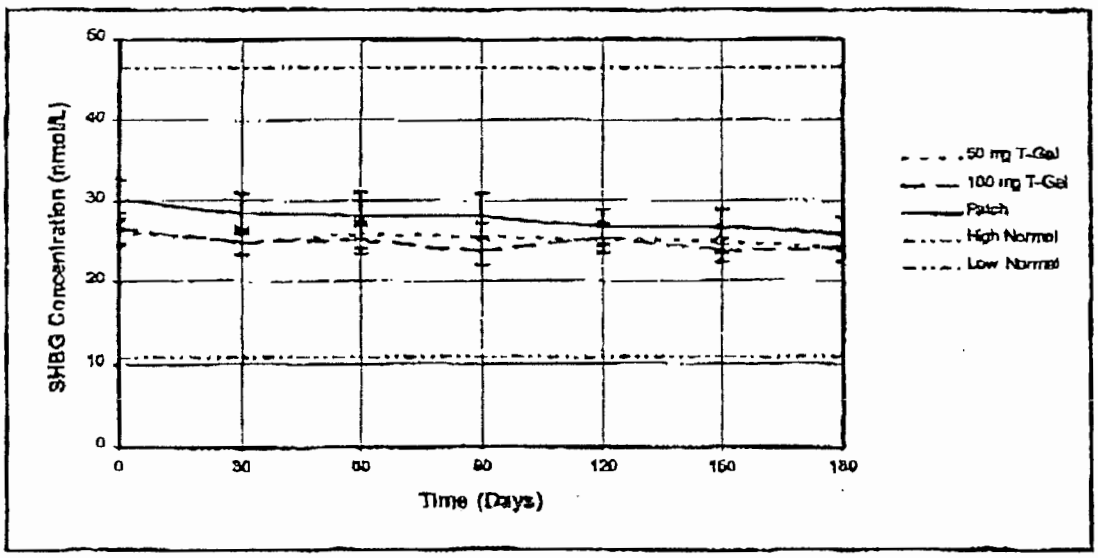

SHBG Concentration (nmol/L)
60
40
30
20
10
0
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 12(a)

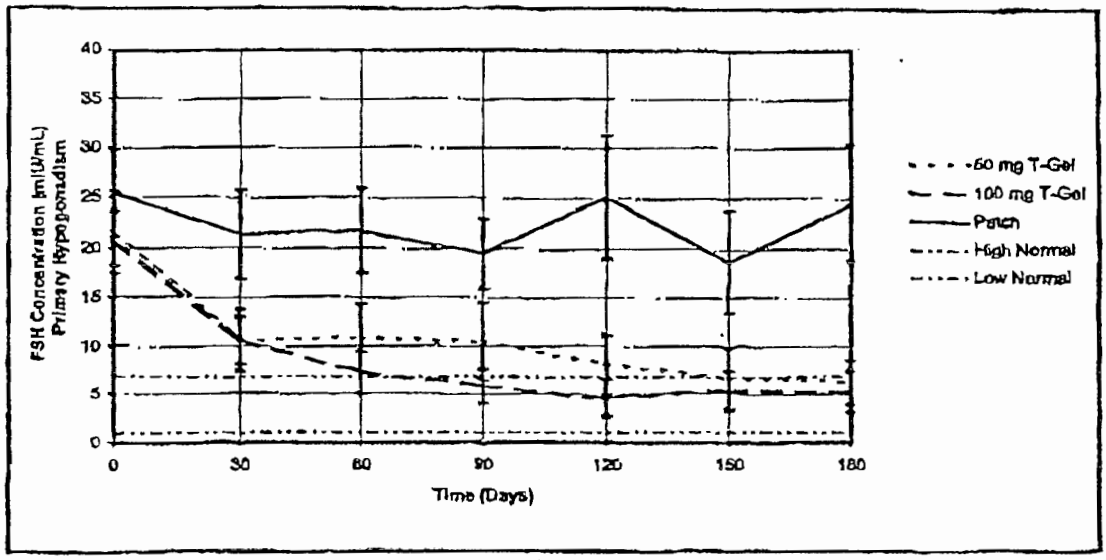


FIG. 12(b)

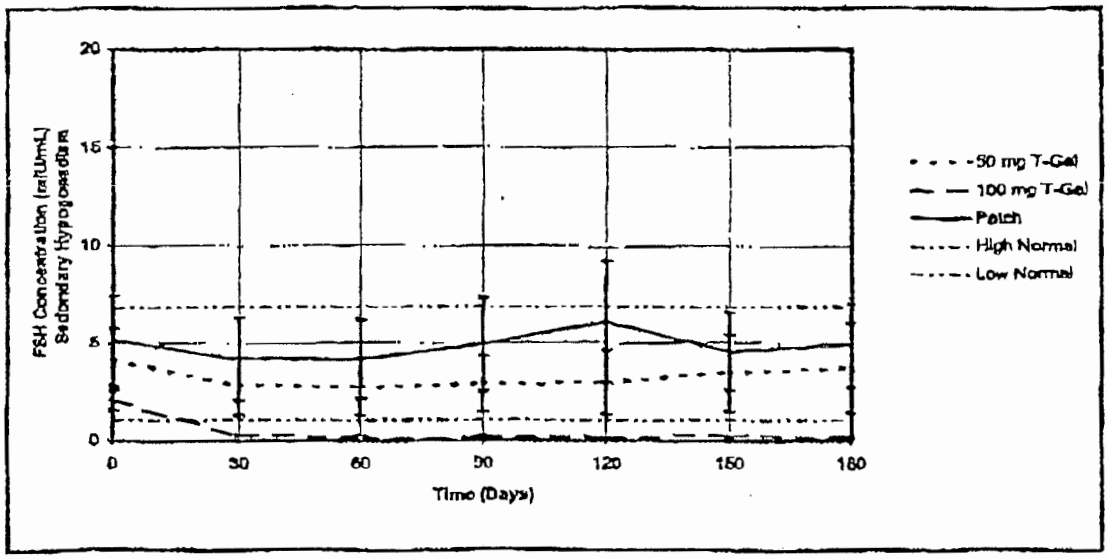


FIG. 12(c)

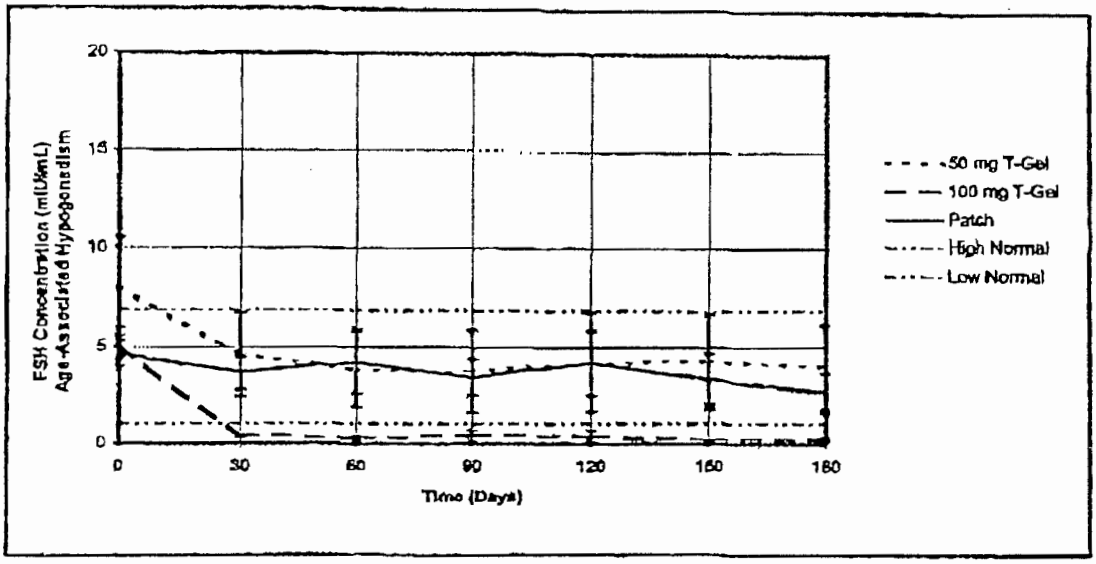


FIG. 12(d)

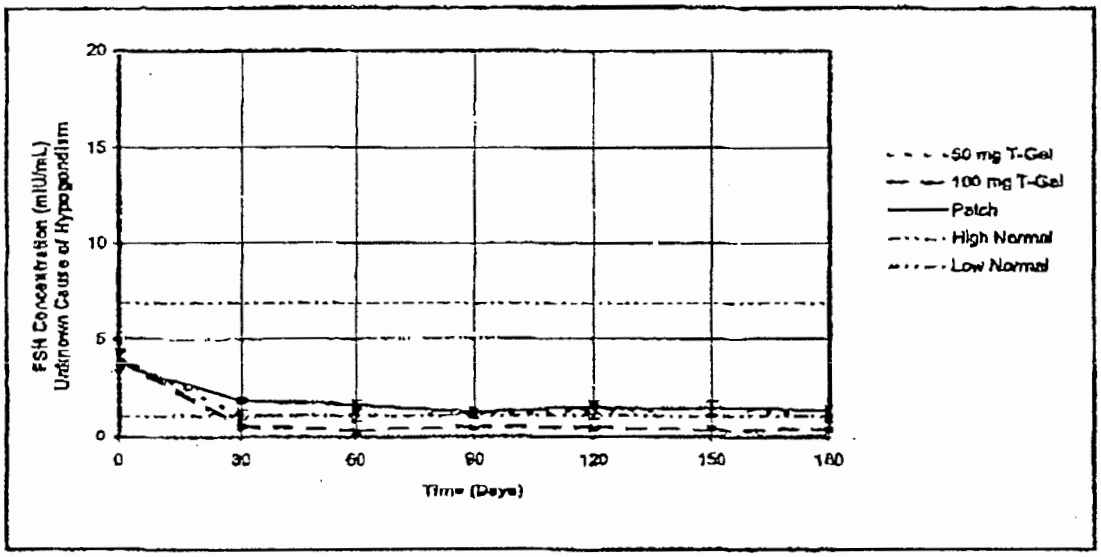


FIG. 13(a)

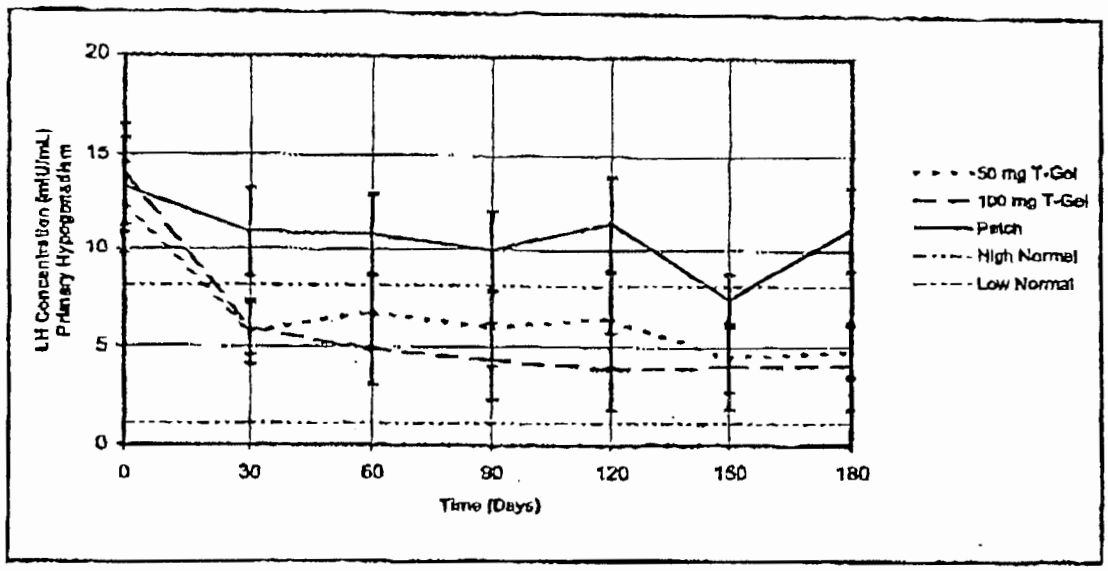


FIG. 13(b)

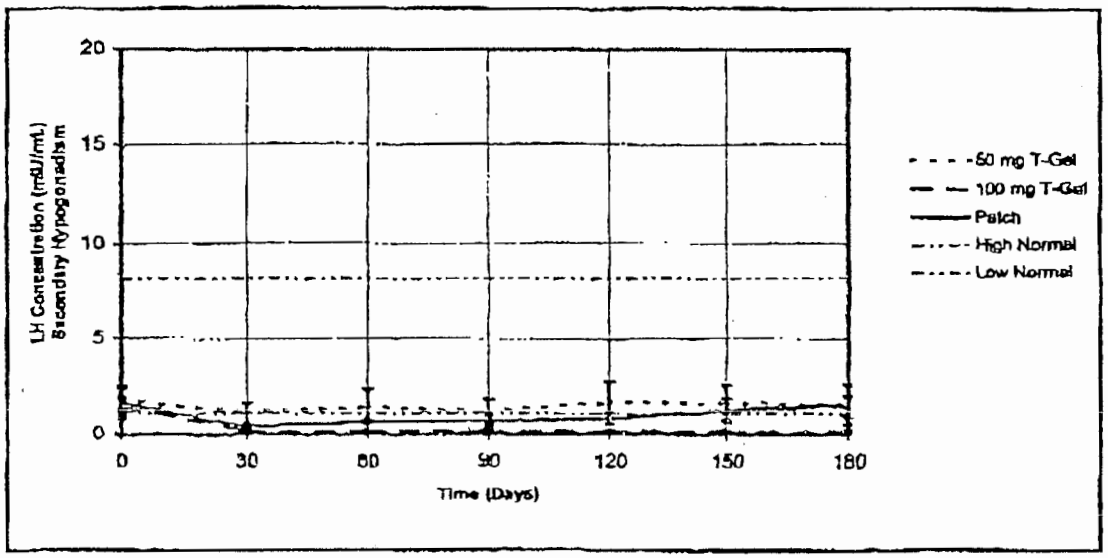


FIG. 13(c)

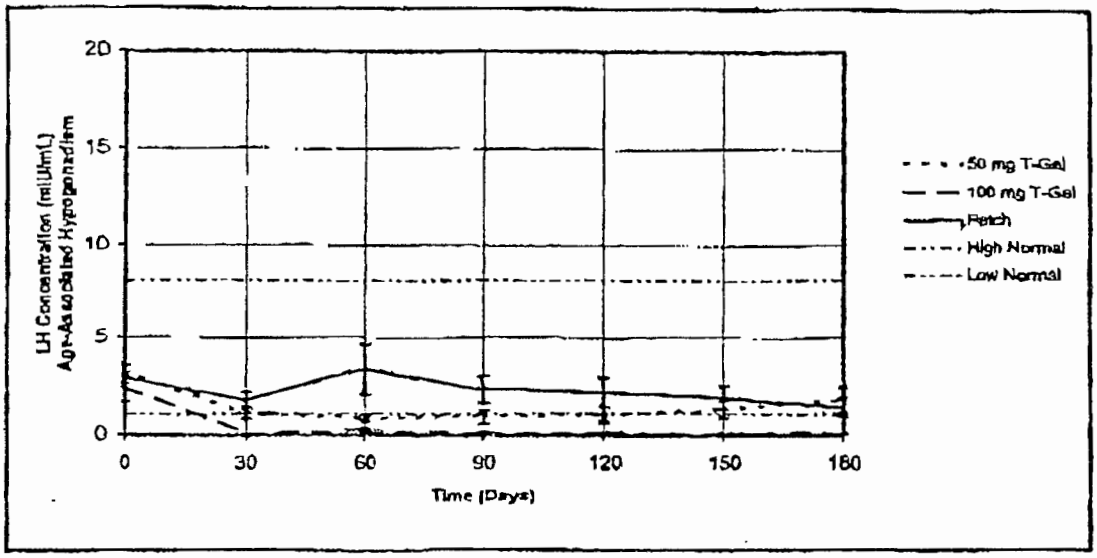


FIG. 13(d)

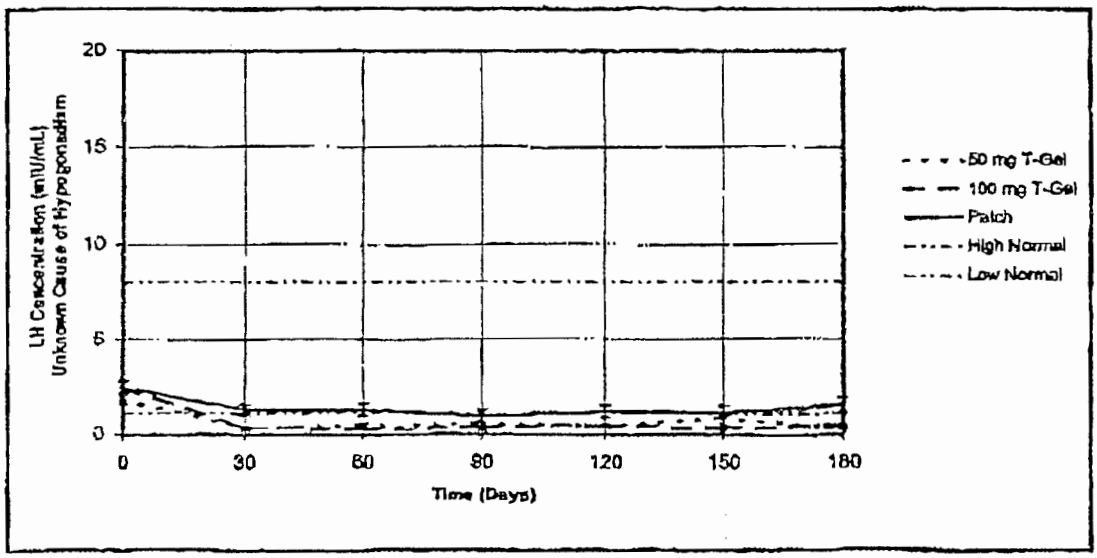


FIG. 14(a)

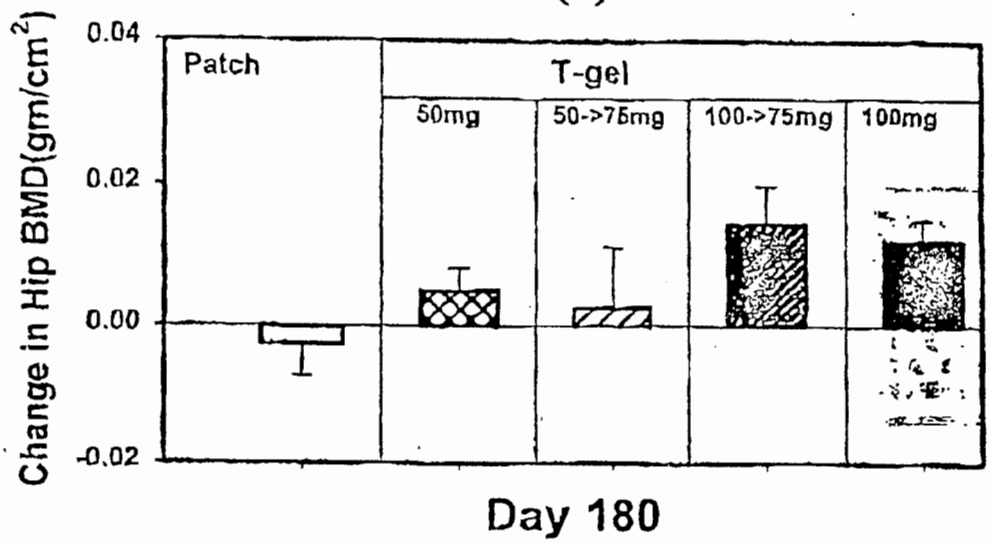


FIG. 14(b)

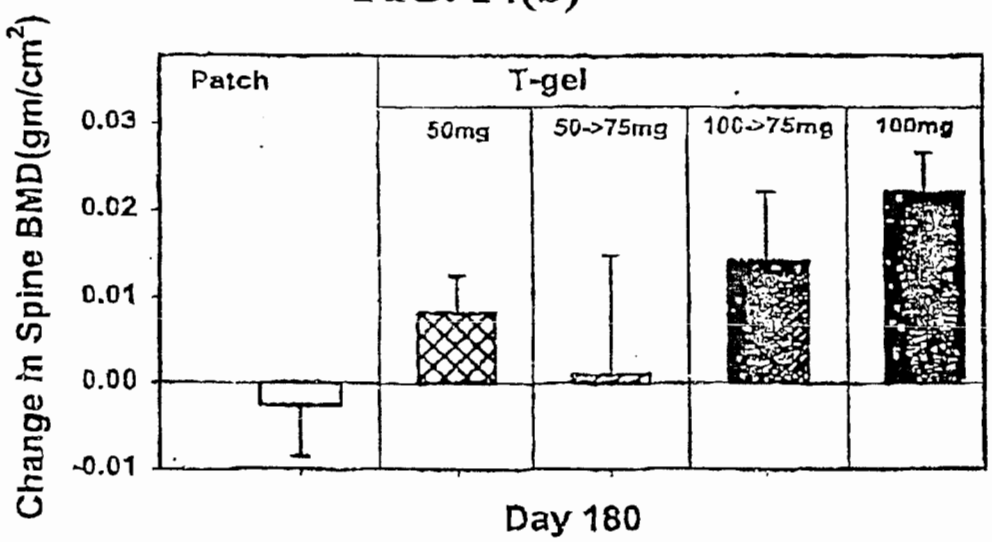


FIG. 15

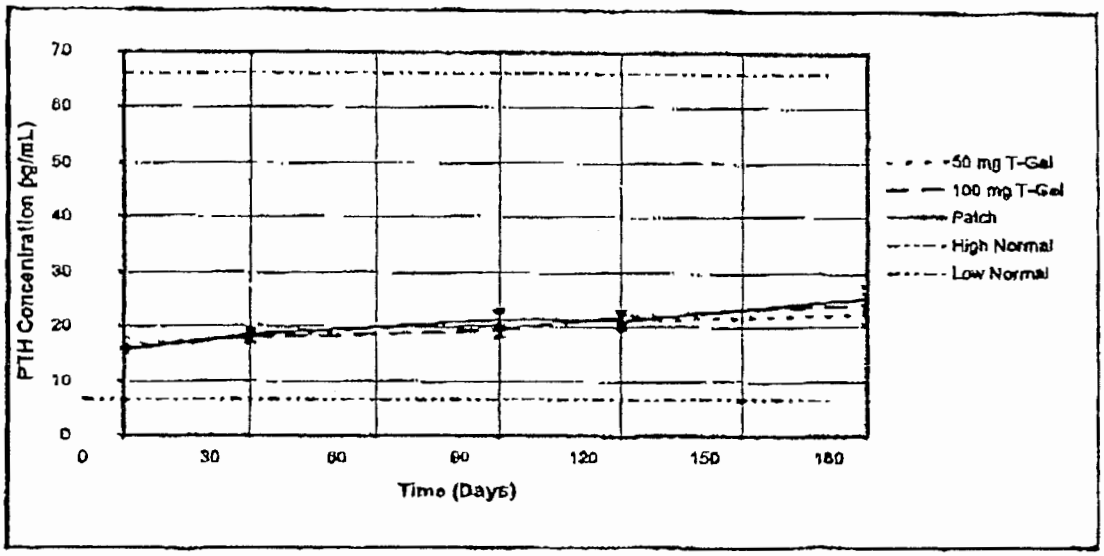

PTH Concentration (pg/mL)
70
60
50
40
30
20
10
0
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 16

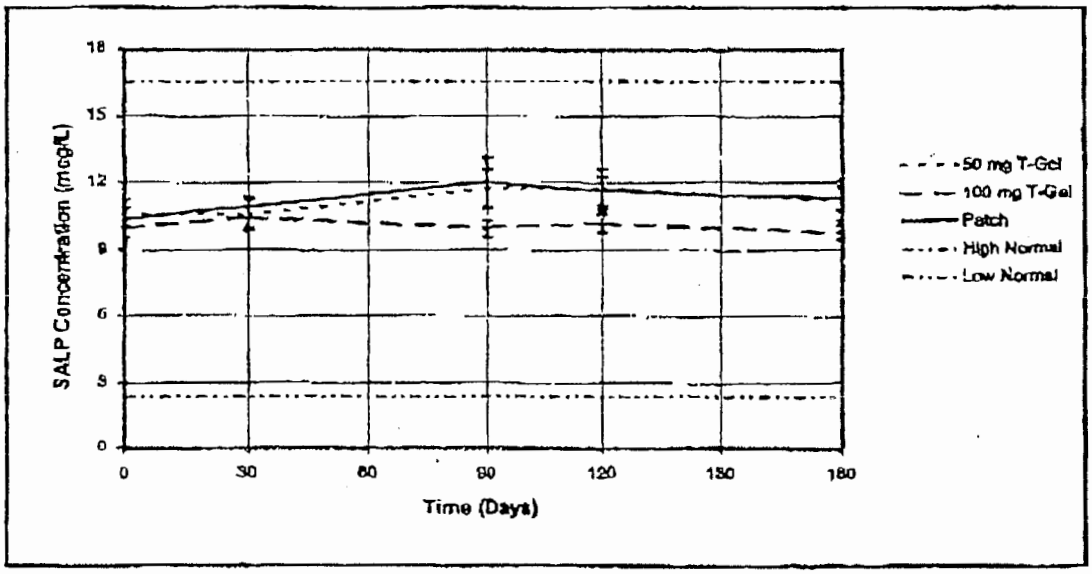

SALP Concentration (mcg/L)
18
15
12
9
6
3
0
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 17

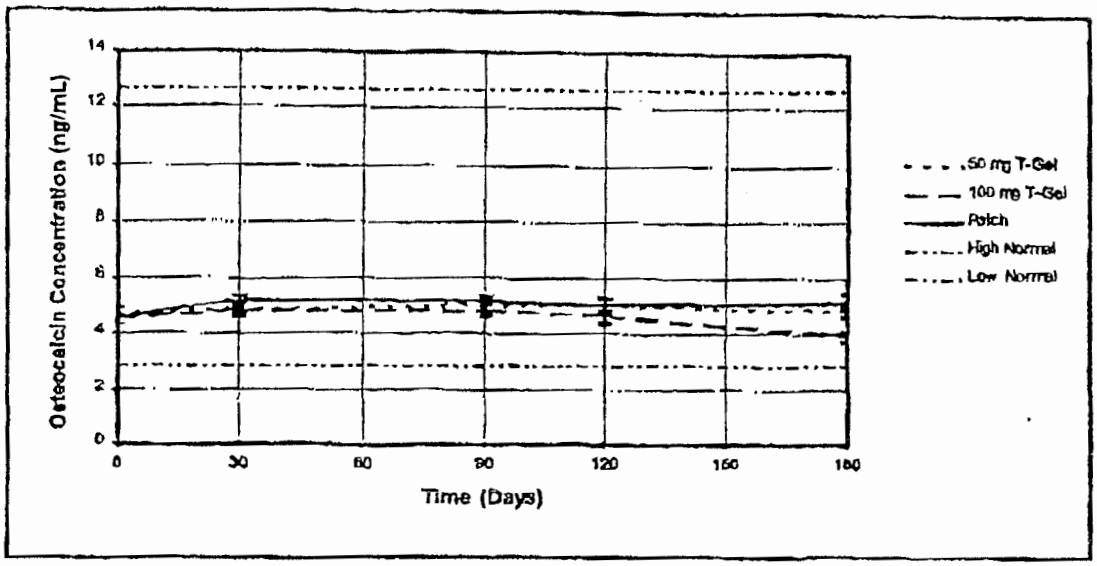

Osteocalcin Concentration (ng/mL)
14
12
10
8
6
4
2
0
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 18

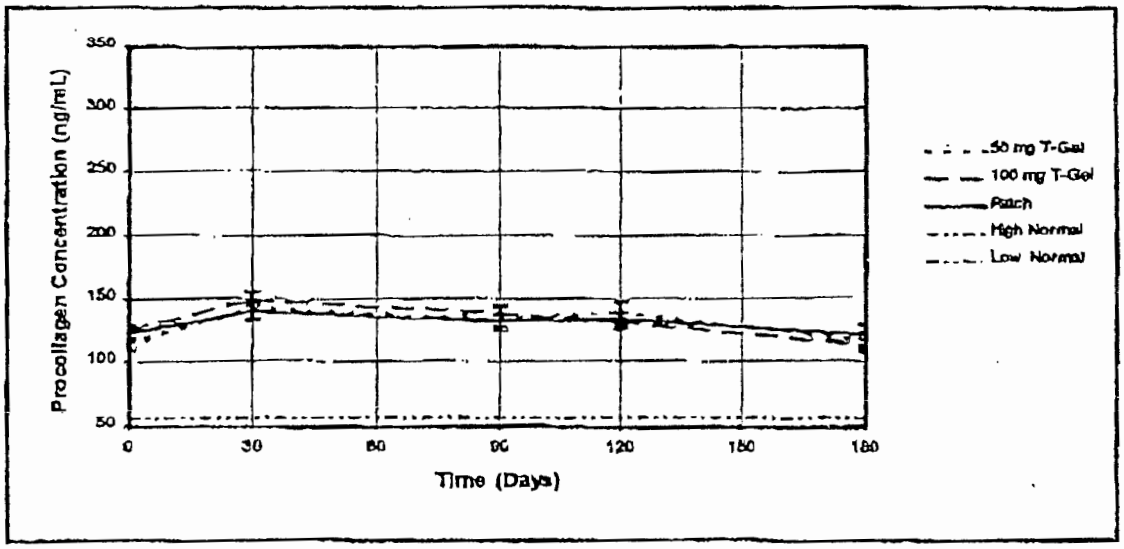

Procollagen Concentration (ng/mL)
350
300
250
200
150
100
50
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 19

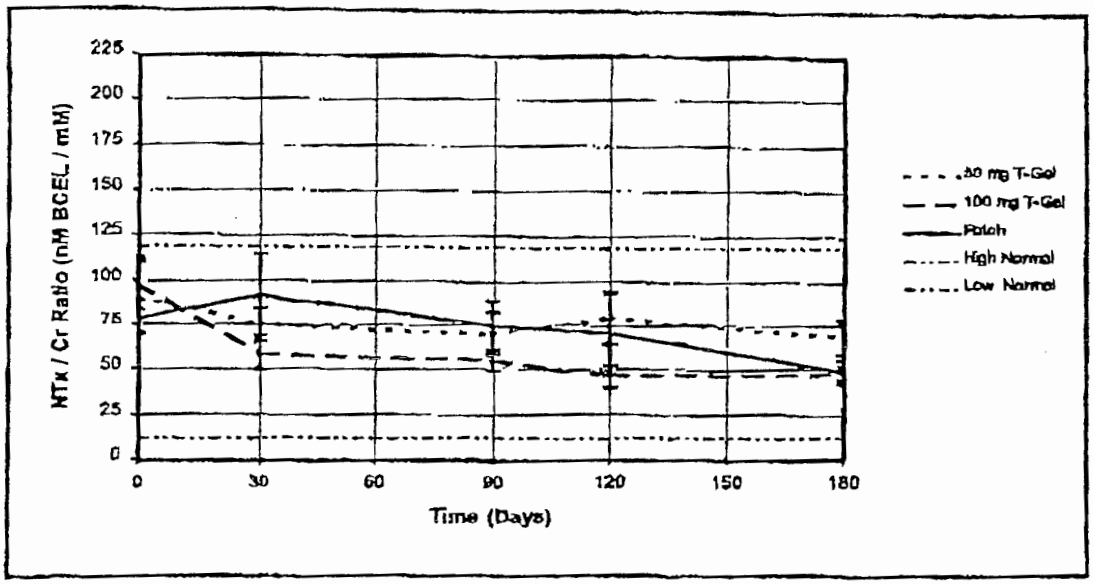

NTx / Cr Ratio (nM BCEL / mM)
225
200
175
150
125
100
75
50
25
0
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 20

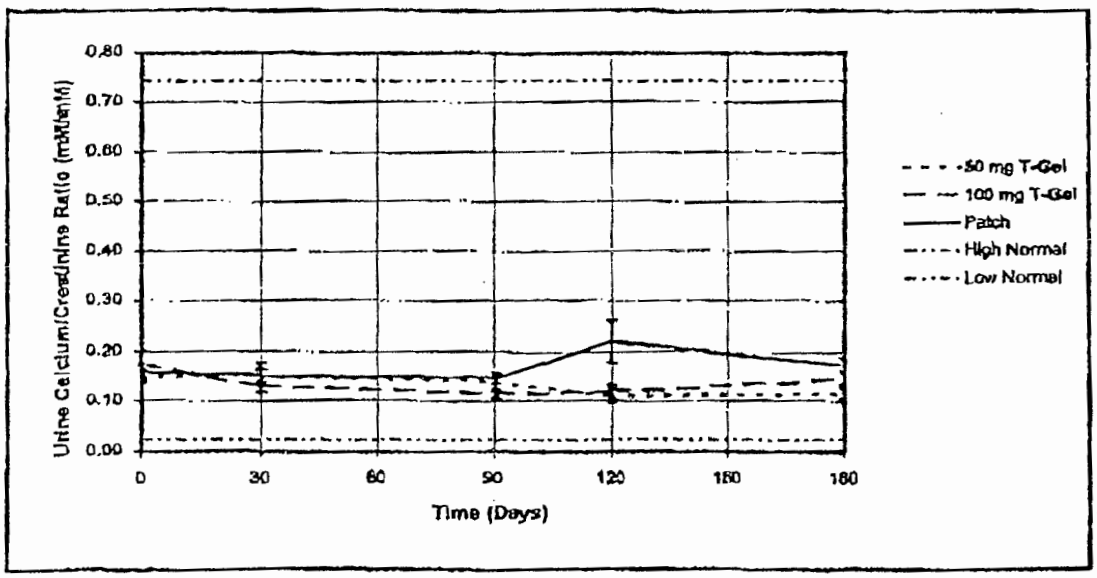

Urine Calcium/Creatinine Ratio (mM/mM)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Time (Days)
50 mg T-Gel
100 mg T-Gel
Patch
High Normal
Low Normal

FIG. 21(a)

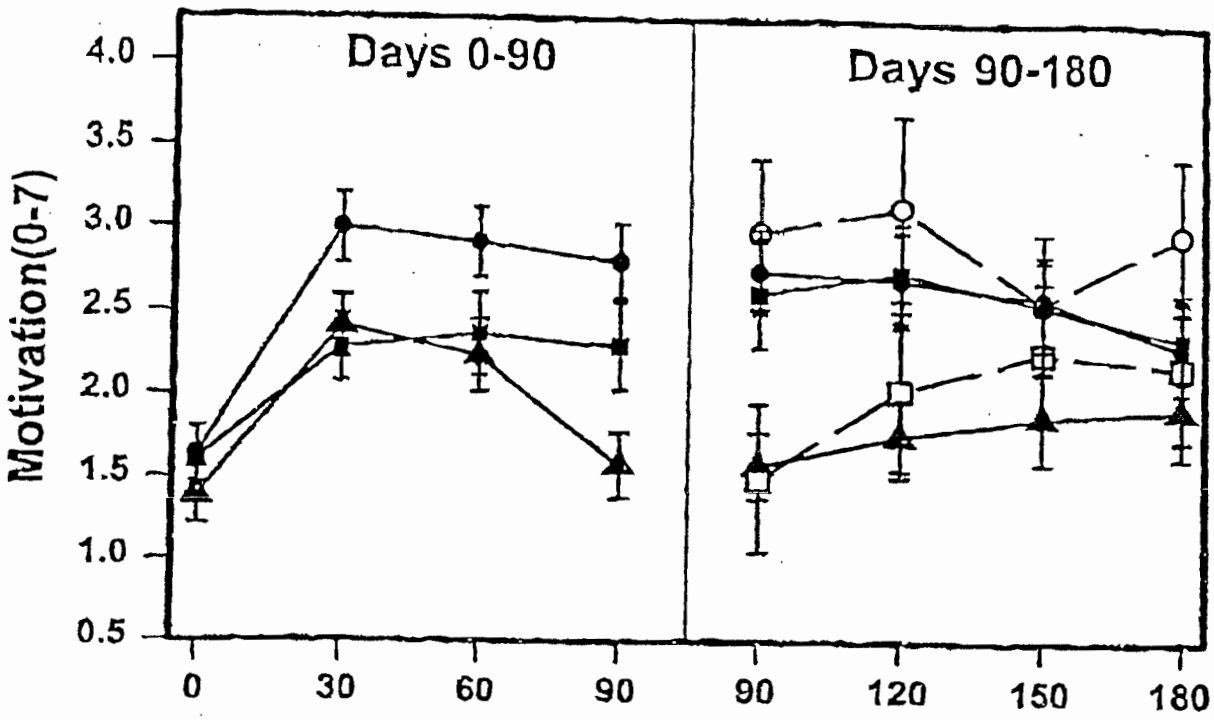


FIG. 21(b)

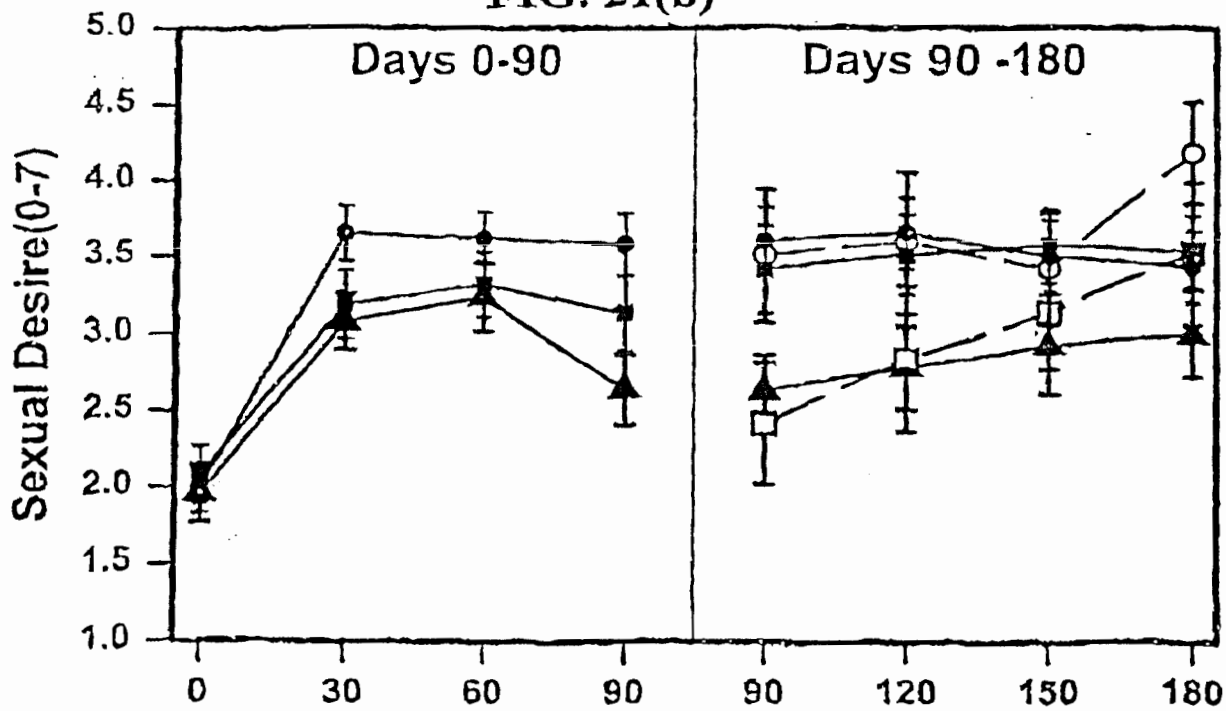


FIG. 21(c)

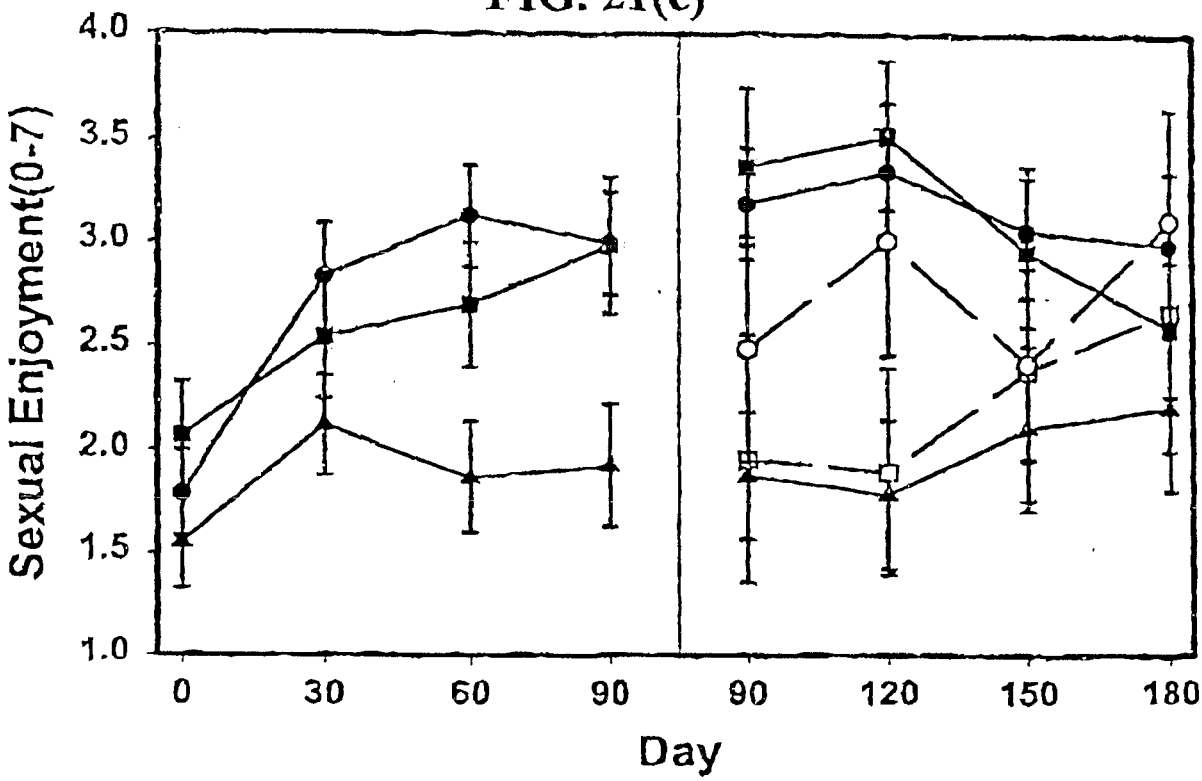


FIG. 22(a)

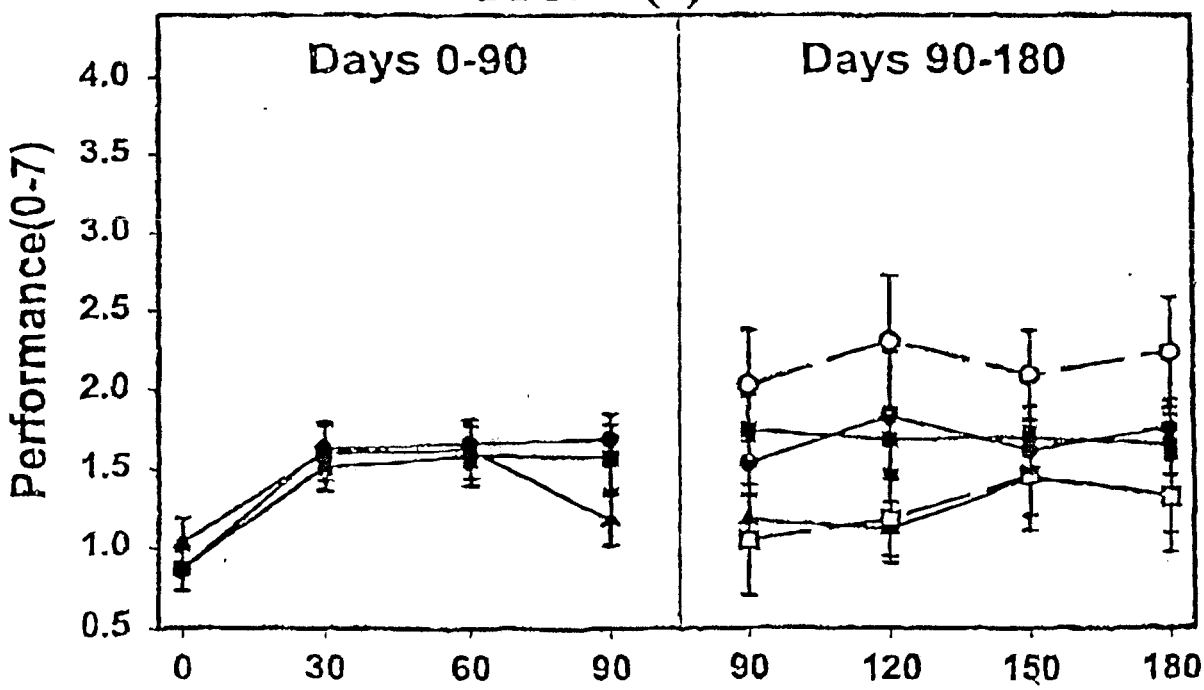


FIG. 22(b)

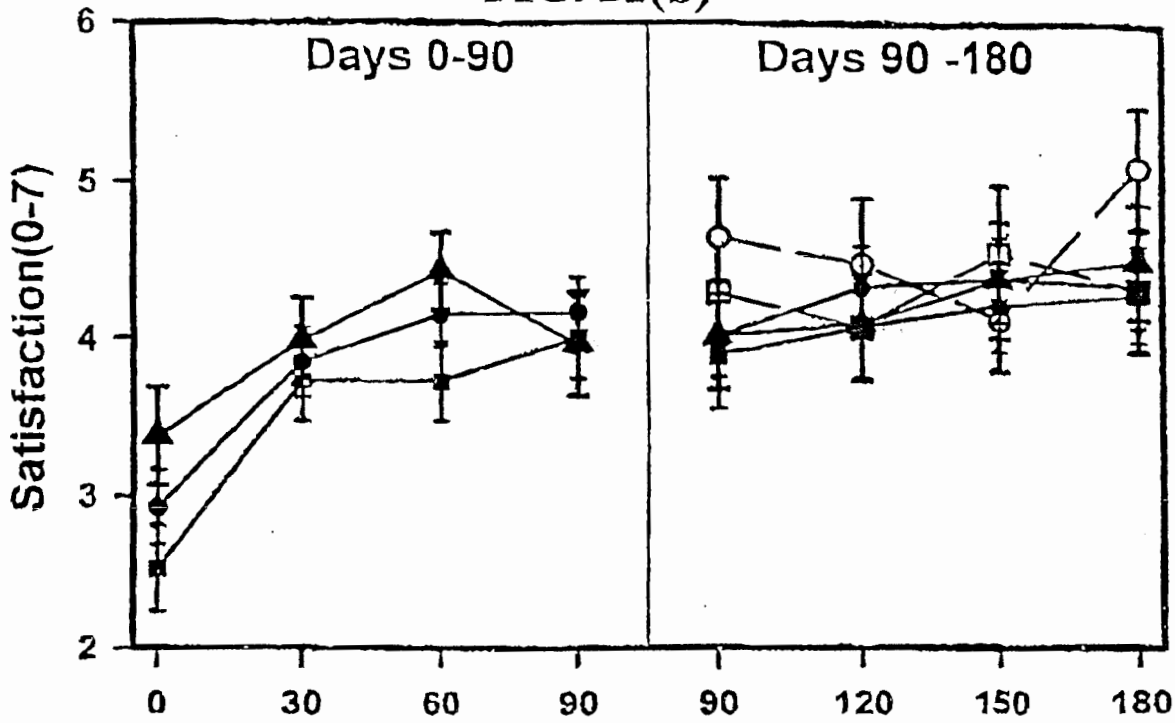


FIG. 22(c)

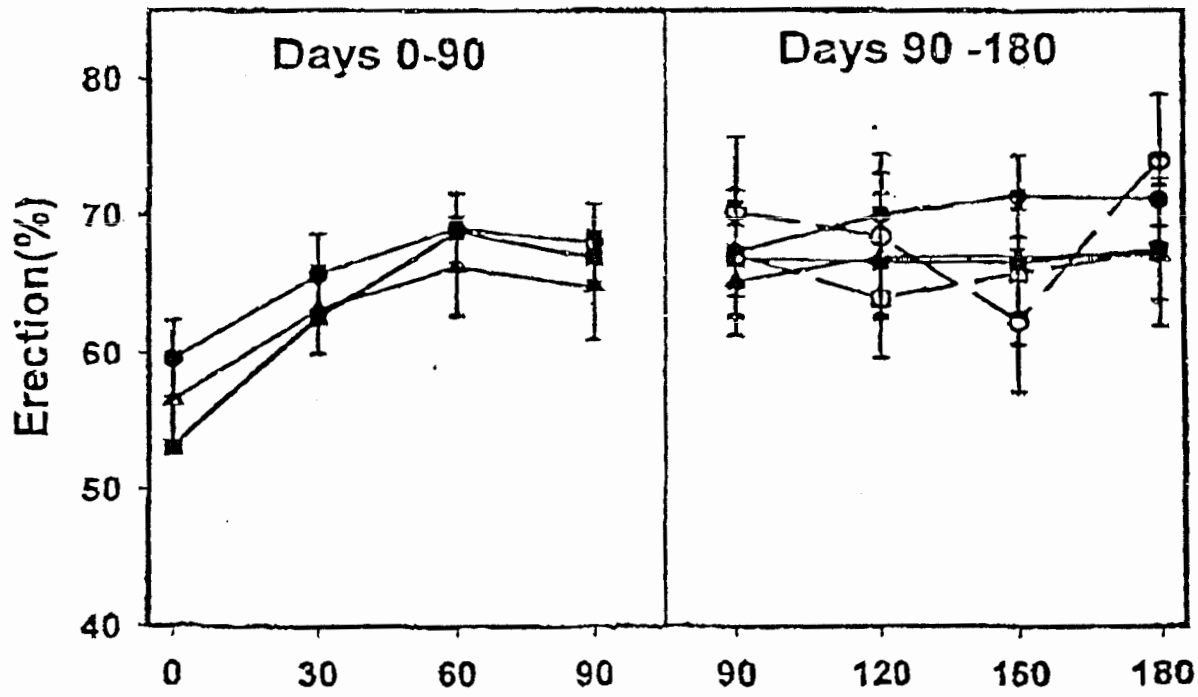


FIG. 23(a)

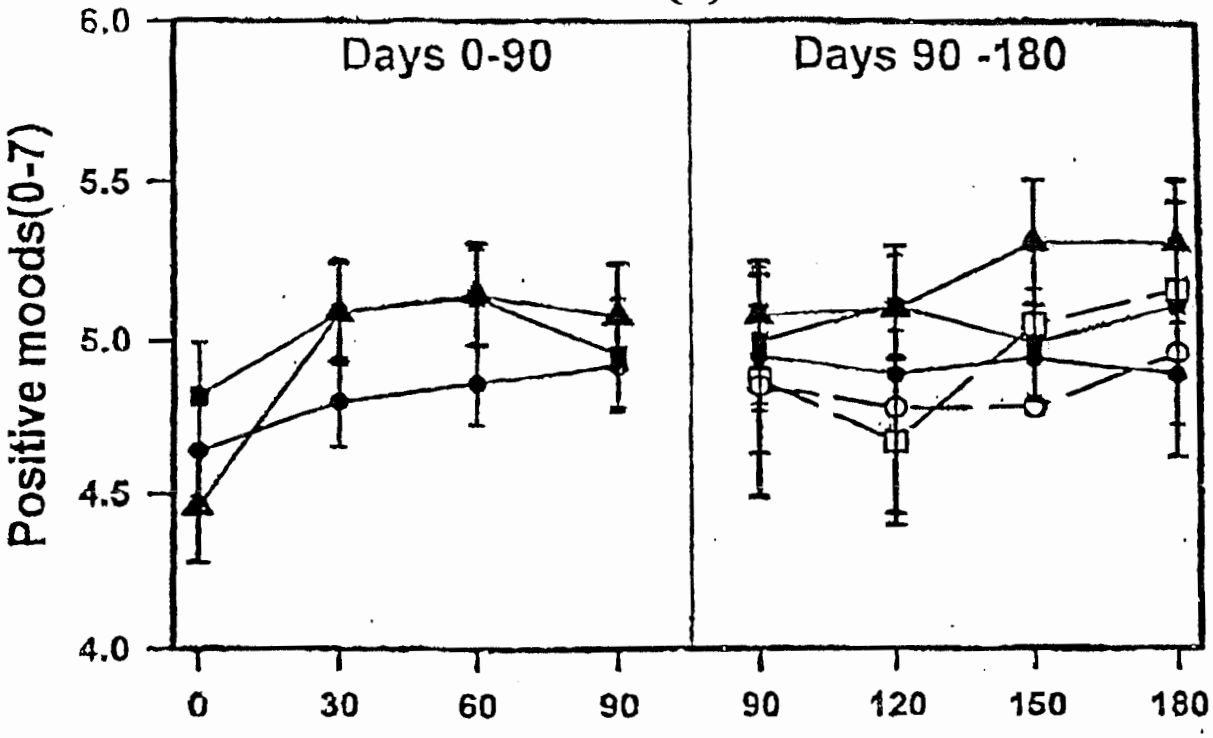


FIG. 23(b)

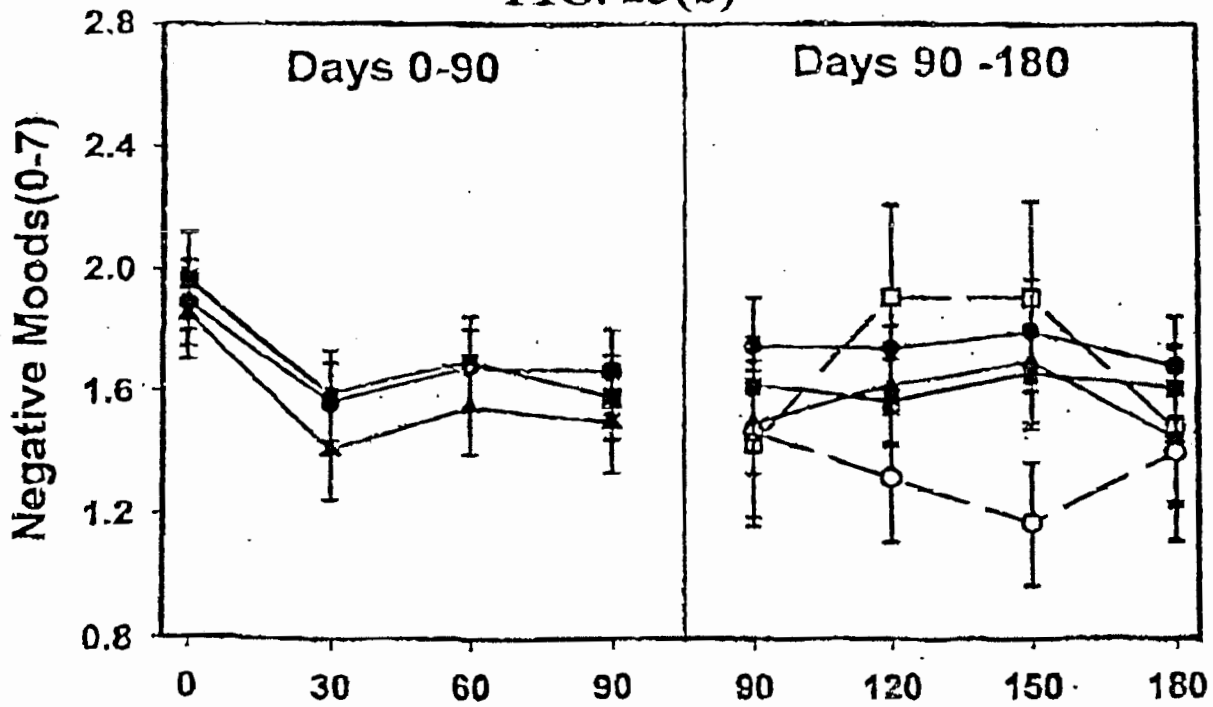


FIG. 24(a)

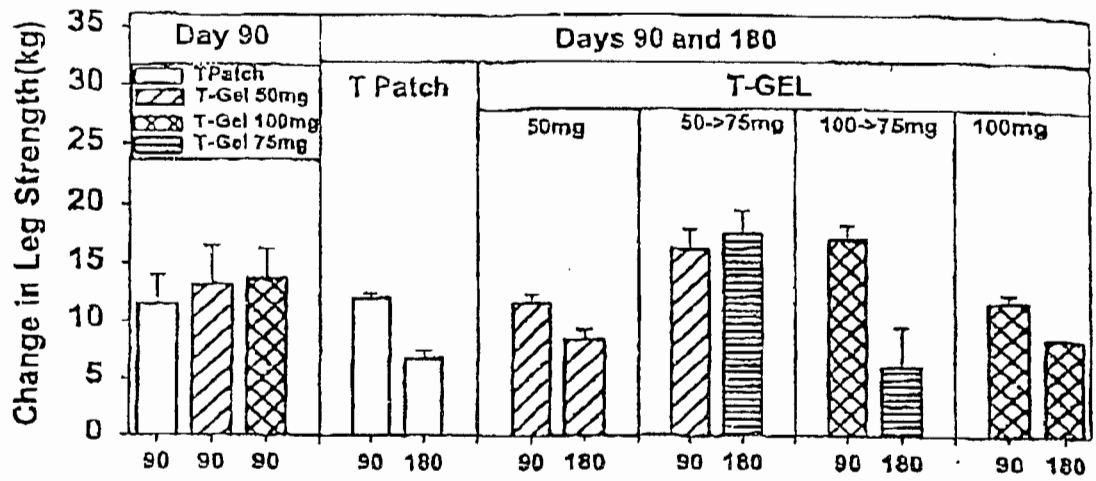


FIG. 24(b)

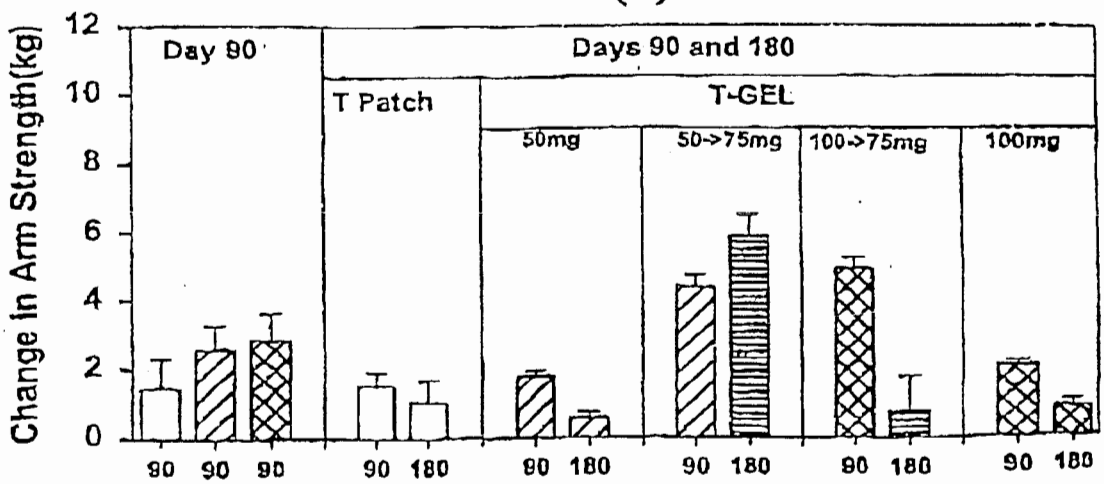


FIG. 25(a)

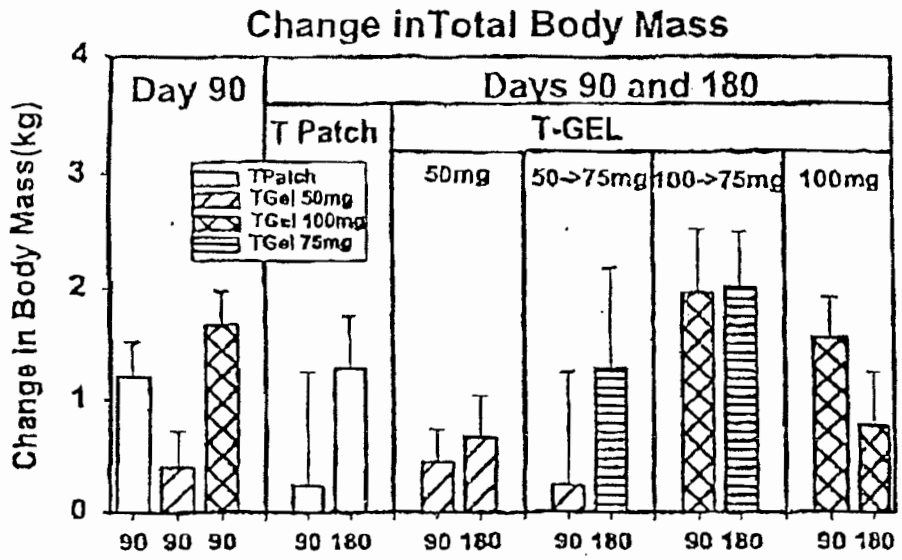


FIG. 25(b)

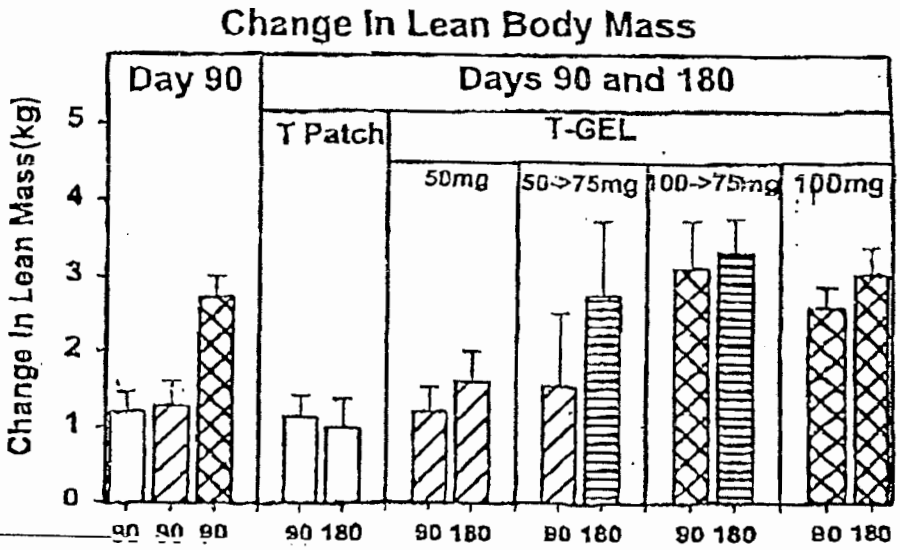


FIG. 25(c)

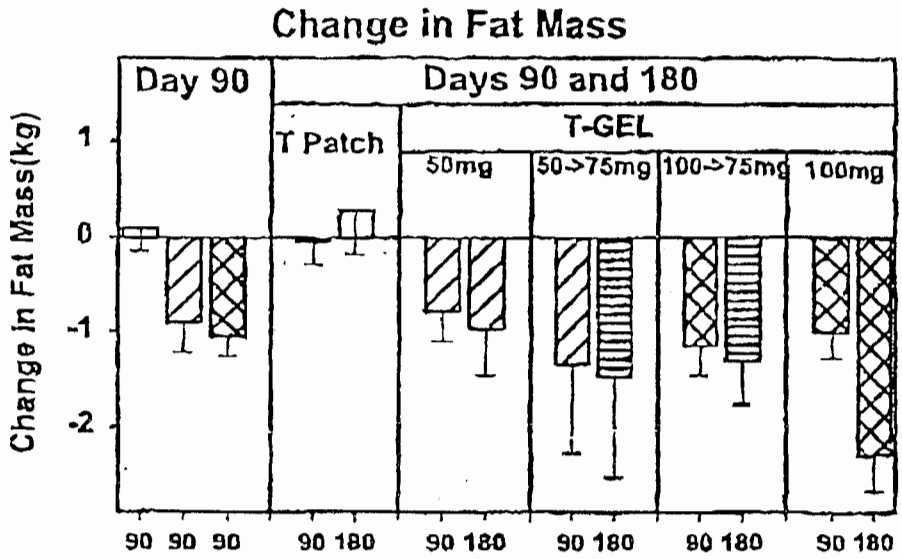


FIG. 25(d)

