```
data twowayanova;
input id bpressure biofeedback $ drug $;
datalines;
1 158 present present
2 163 present present
3 173 present present
4 178 present present
5 168 present present
6 188 present absent
7 183 present absent
8 198 present absent
9 178 present absent
10 193 present absent
11 186 absent present
12 191 absent present
13 196 absent present
14 181 absent present
15 176 absent present
16 185 absent absent
17 190 absent absent
18 195 absent absent
19 200 absent absent
20 180 absent absent
;
proc print;
run;

proc means data=twowayanova;
var bpressure;
by biofeedback drug notsorted ;
output out = bpressuremeans mean = meanpressure;
run;

symbol1 v = present i = join c = black;
symbol2 v = absent i = join c = black;
proc gplot data = bpressuremeans;
plot meanpressure*drug = biofeedback /frame;



proc glm data=twowayanova;
class biofeedback drug;
model bpressure= biofeedback drug biofeedback*drug;
run;
```

The SAS System

Obs	id	bpressure	biofeedback	drug
1	1	158	present	present
2	2	163	present	present
3	3	173	present	present
4	4	178	present	present
5	5	168	present	present
6	6	188	present	absent
7	7	183	present	absent
8	8	198	present	absent
9	9	178	present	absent
10	10	193	present	absent
11	11	186	absent	present
12	12	191	absent	present
13	13	196	absent	present
14	14	181	absent	present
15	15	176	absent	present
16	16	185	absent	absent
17	17	190	absent	absent
18	18	195	absent	absent
19	19	200	absent	absent
20	20	180	absent	absent

The SAS System

The MEANS Procedure

biofeedback=present drug=present

Analysis Variable : bpressure				
N	Mean	Std Dev	Minimum	Maximum
5	168.0000000	7.9056942	158.0000000	178.0000000

biofeedback=present drug=absent

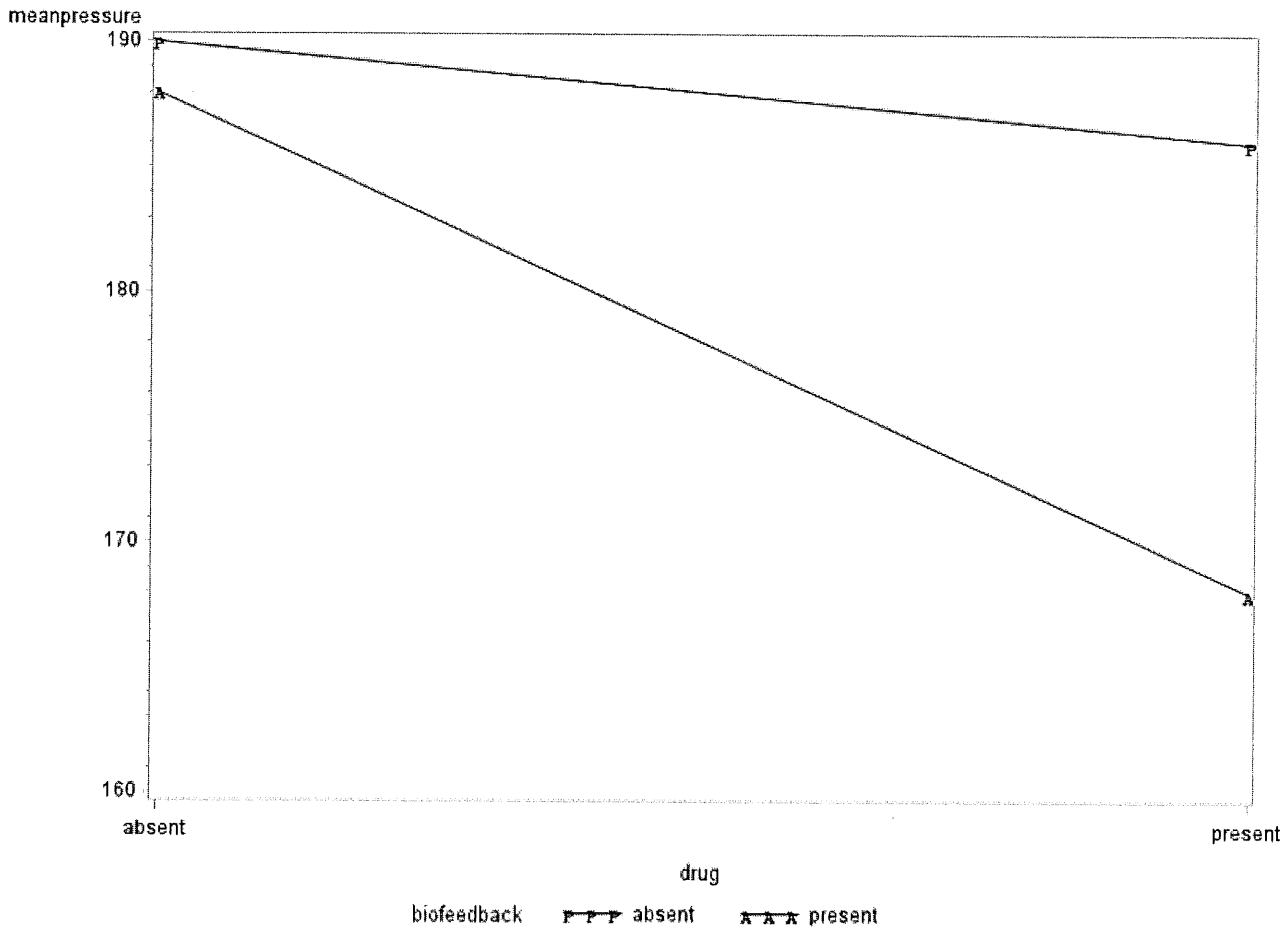
Analysis Variable : bpressure				
N	Mean	Std Dev	Minimum	Maximum
5	188.0000000	7.9056942	178.0000000	198.0000000

biofeedback=absent drug=present

Analysis Variable : bpressure				
N	Mean	Std Dev	Minimum	Maximum
5	186.0000000	7.9056942	176.0000000	196.0000000

biofeedback=absent drug=absent

Analysis Variable : bpressure				
N	Mean	Std Dev	Minimum	Maximum
5	190.0000000	7.9056942	180.0000000	200.0000000


meanpressure
190
180
170
160
absent
present
drug
biofeedback
absent
present

The SAS System

The GLM Procedure

Class Level Information		
Class	Levels	Values
biofeedback	2	absent present
drug	2	absent present

Number of Observations Read	20
Number of Observations Used	20

The SAS System

The GLM Procedure

Dependent Variable: bpressure

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1540.000000	513.333333	8.21	0.0016
Error	16	1000.000000	62.500000		
Corrected Total	19	2540.000000			

R-Square	Coeff Var	Root MSE	bpressure Mean
0.606299	4.320051	7.905694	183.0000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
biofeedback	1	500.0000000	500.0000000	8.00	0.0121
drug	1	720.0000000	720.0000000	11.52	0.0037
biofeedback*drug	1	320.0000000	320.0000000	5.12	0.0379

Source	DF	Type III SS	Mean Square	F Value	Pr > F
biofeedback	1	500.0000000	500.0000000	8.00	0.0121
drug	1	720.0000000	720.0000000	11.52	0.0037
biofeedback*drug	1	320.0000000	320.0000000	5.12	0.0379