

Regression Models for Demonstration: Conducting ANCOVA Using PROC GLM

Demonstration Code:

Parameter Table (Partial Results)

Parameter	Estimate		Standard Error	t Value	Pr > t
Intercept	15.16097099	В	8.59030873	1.76	0.0811
Treatment Approved Drug	68.37420774	В	13.80649413	4.95	<.0001
Treatment New Drug	83.73827468	В	12.49532810	6.70	<.0001
Treatment Placebo	0.00000000	В			
BaselineBP	-0.16733979	В	0.09100548	-1.84	0.0694
BaselineBP*Treatment Approved Drug	-0.75860830	В	0.14588398	-5.20	<.0001
BaselineBP*Treatment New Drug	-0.98130328	В	0.13099717	-7.49	<.0001
BaselineBP*Treatment Placebo	0.00000000	В			

```
Approved Drug
BPChange = (15.1610 + 68.3742) + (-0.1673 - 0.7586) * BaselineBP = 83.5352 - 0.9259 * BaselineBP

New Drug
BPChange = (15.1610 + 83.7383) + (-0.1673 - 0.9813) * BaselineBP = 98.8993 - 1.1486 * BaselineBP

Placebo
BPChange = 15.1610 - 0.1673 * BaselineBP
```

Close