GLM 过程

分类水平信息		
分类	水平	值
sex	2	female male
smoker	2	no yes

读取的观测数	1338
使用的观测数	1338

GLM 过程

因变量: charges

源	自由度	平方和	均方	F 值	Pr > F
模型	3	122013664675	40671221558	732.58	<.0001
误差	1334	74060556893	55517658.841		
校正合计	1337	196074221568			

R 方	变异系数	均方根误差	charges 均值
0.622283	56.14755	7451.017	13270.42

源	自由度	I 型 SS	均方	F 值	Pr > F
sex	1	643590180.13	643590180.13	11.59	0.0007
smoker	1	120877734754	120877734754	2177.28	<.0001
sex*smoker	1	492339740.81	492339740.81	8.87	0.0030

源	自由度	III 型 SS	均方	F 值	Pr > F
sex	1	151971572.34	151971572.34	2.74	0.0983
smoker	1	117186564802	117186564802	2110.80	<.0001
sex*smoker	1	492339740.81	492339740.81	8.87	0.0030
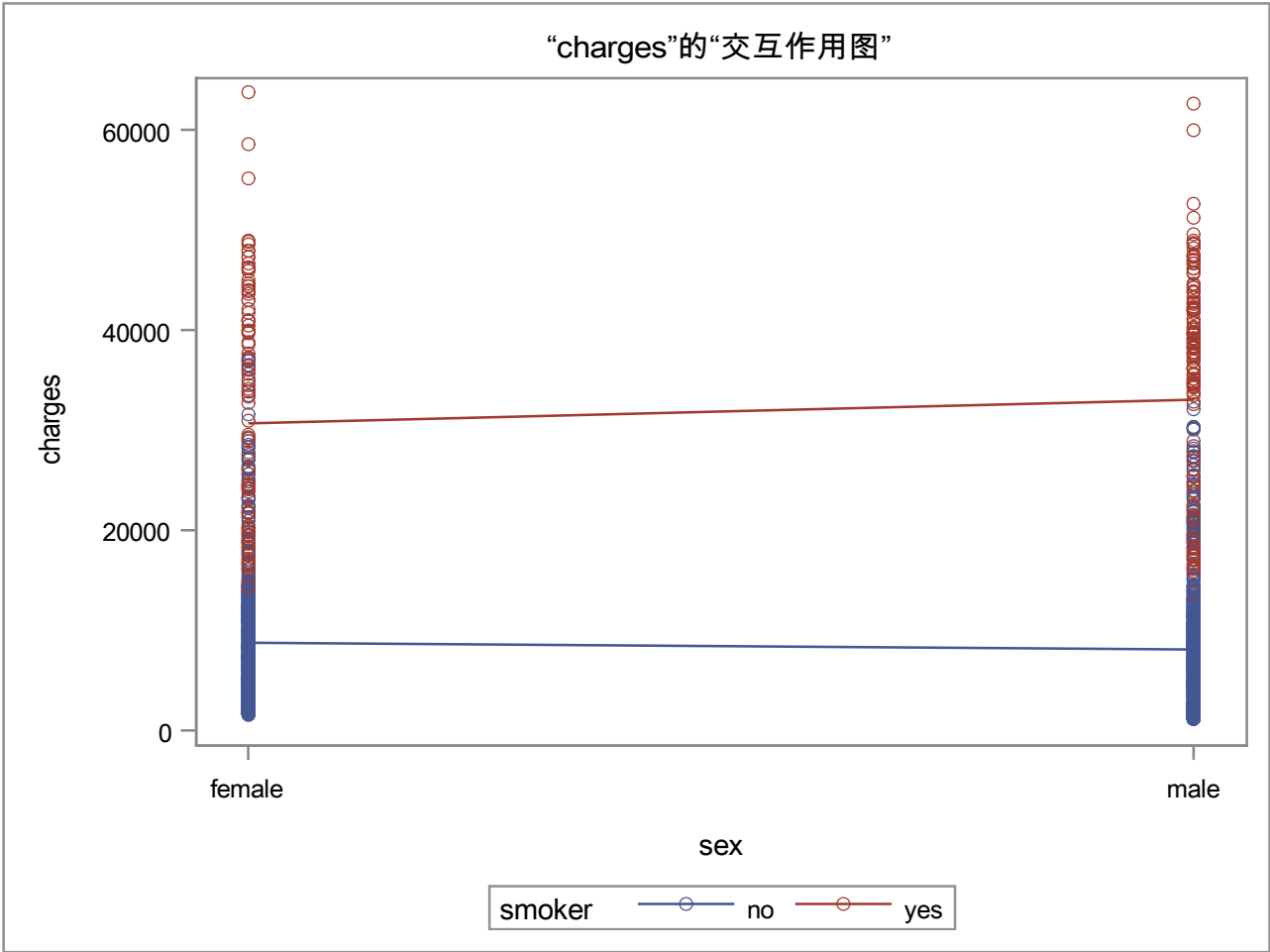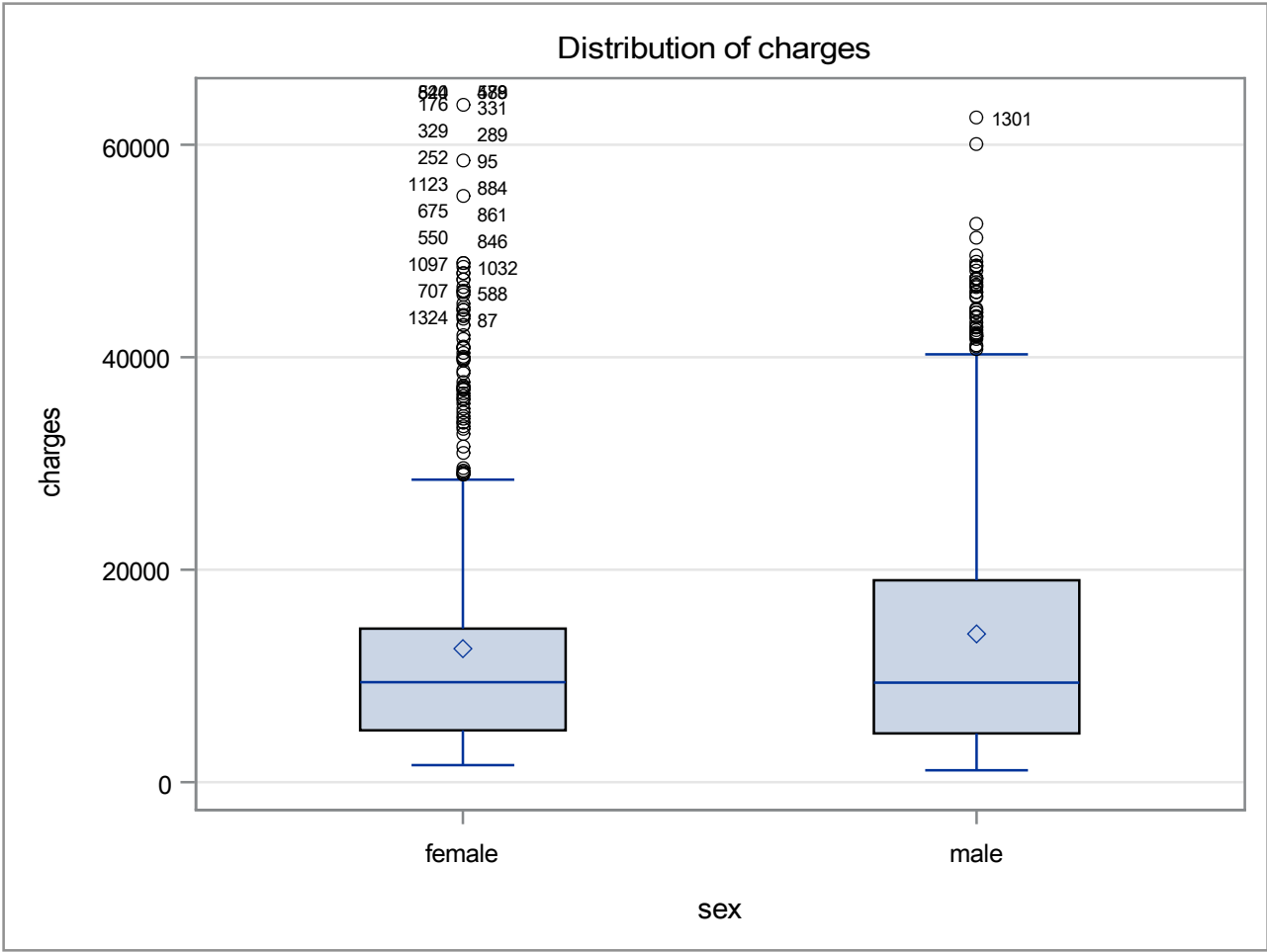
"charges"的"交互作用图"
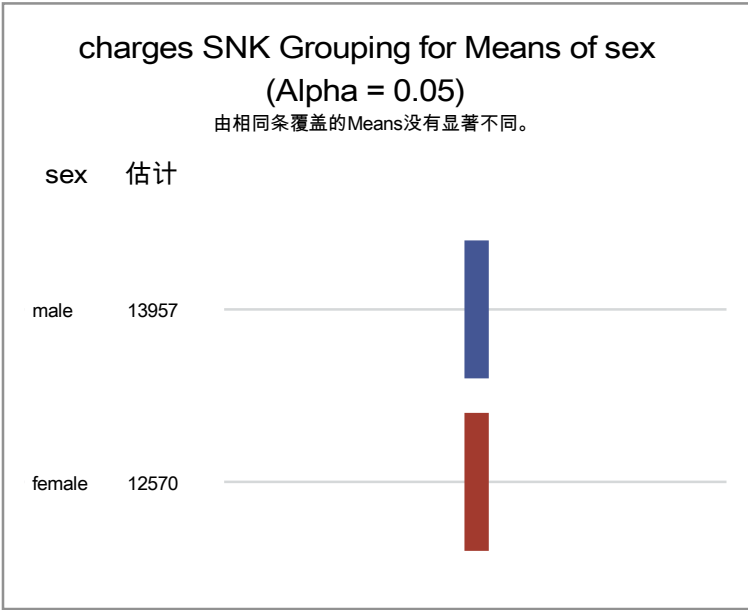
GLM 过程

Distribution of charges

GLM 过程

Student-Newman-Keuls Test for charges

Note: This test controls the Type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.
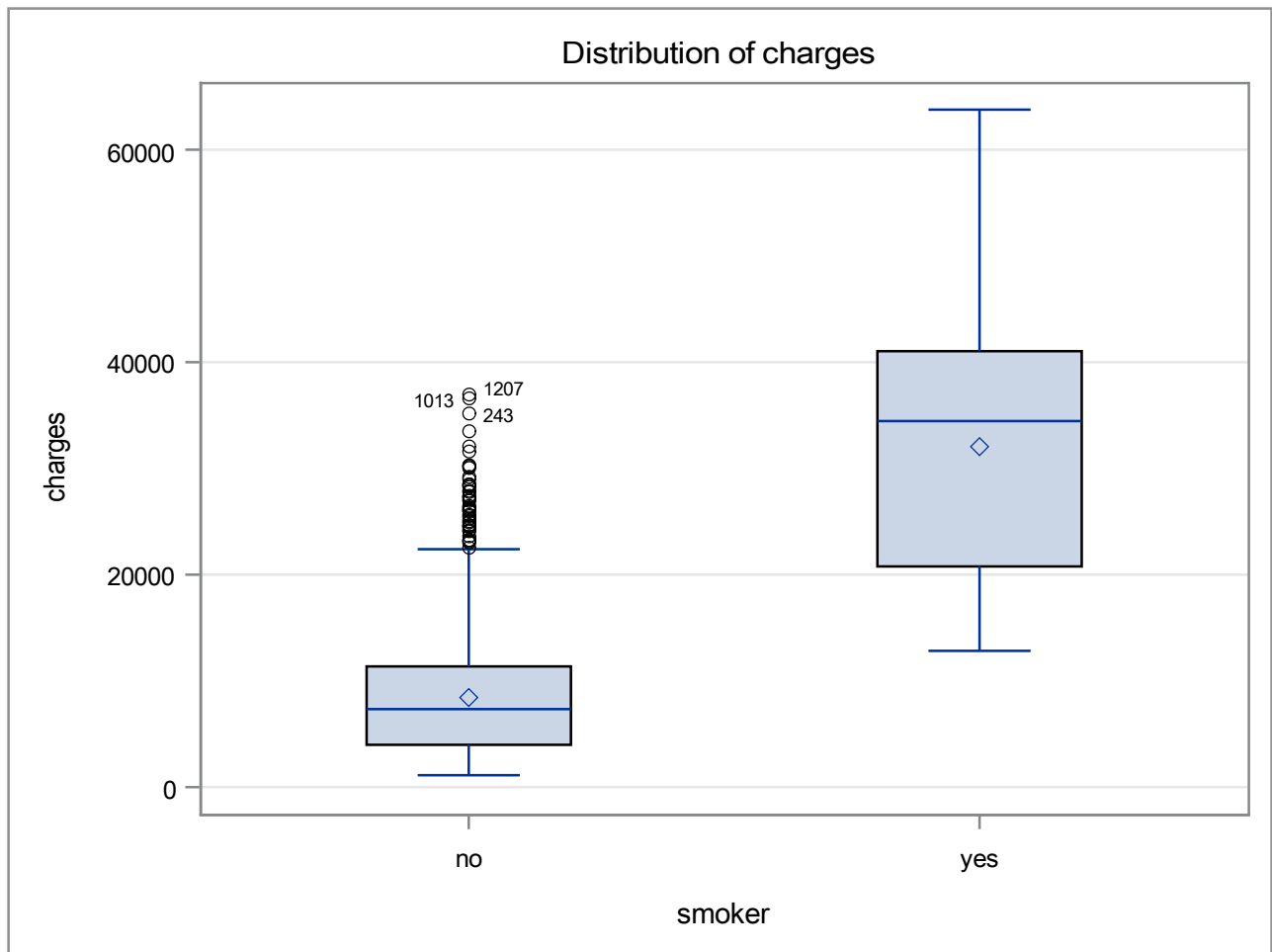
Alpha	0.05
Error Degrees of Freedom	1334
Error Mean Square	55517659
Harmonic Mean of Cell Sizes	668.9268

Note: Cell sizes are not equal.

Number of Means	2
Critical Range	799.25185

charges SNK Grouping for Means of sex
(Alpha = 0.05)
由相同条覆盖的Means没有显著不同。

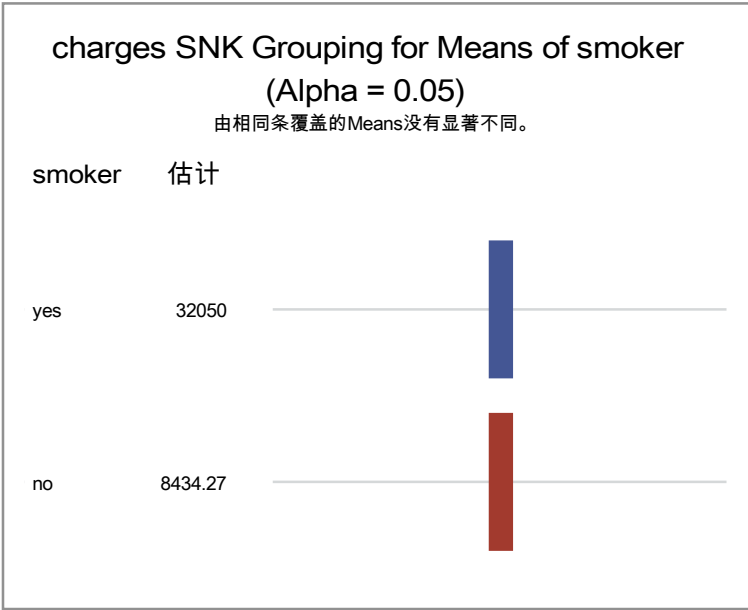| sex	估计
male	13957
female	12570

GLM 过程

Distribution of charges

GLM 过程

Student-Newman-Keuls Test for charges

Note: This test controls the Type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.
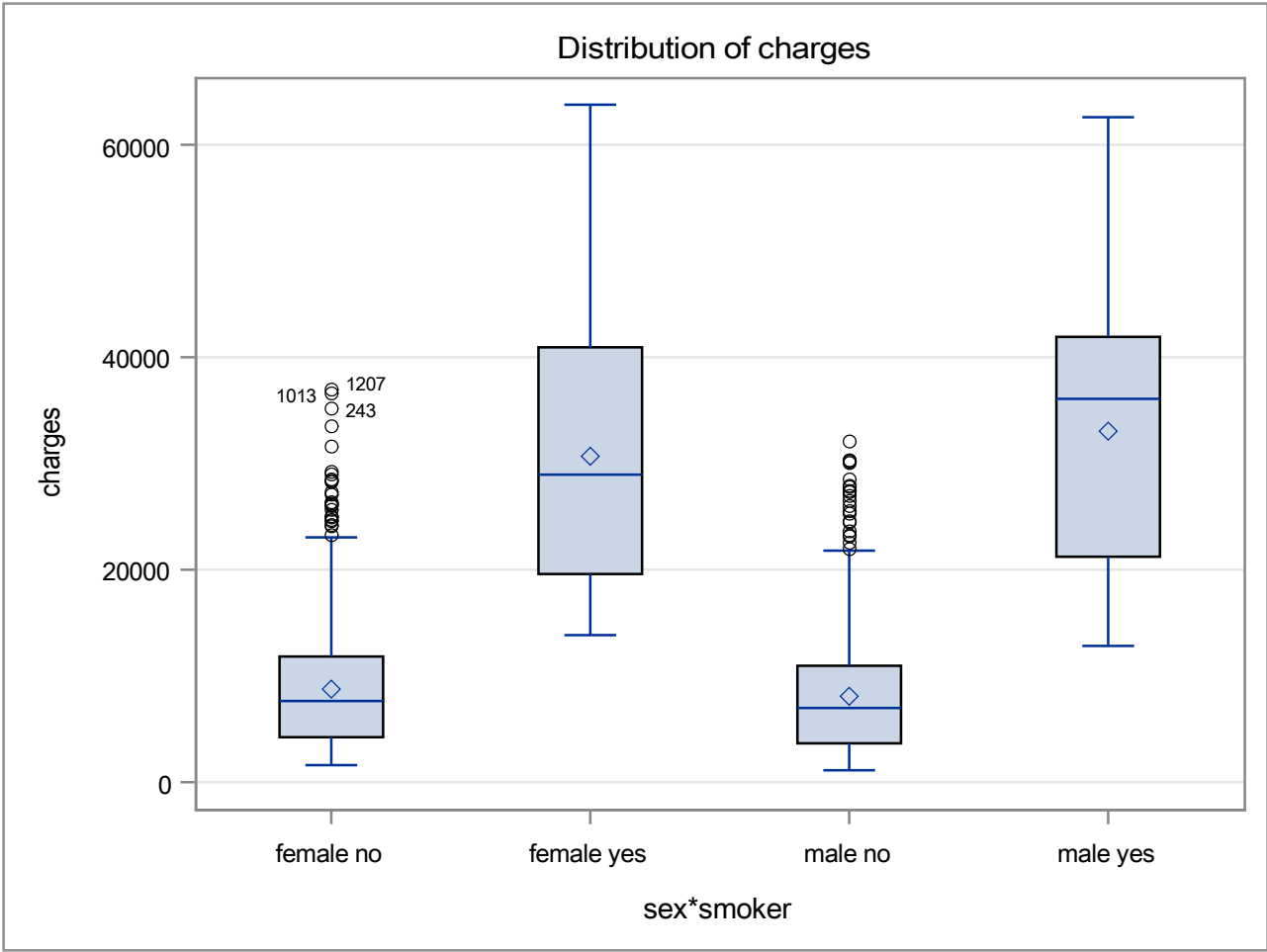
Alpha	0.05
Error Degrees of Freedom	1334
Error Mean Square	55517659
Harmonic Mean of Cell Sizes	435.7788

Note: Cell sizes are not equal.

Number of Means	2
Critical Range	990.23871

charges SNK Grouping for Means of smoker
(Alpha = 0.05)

由相同条覆盖的Means没有显著不同。

smoker　　估计

smoker	估计
yes	32050
no	8434.27

GLM 过程

Distribution of charges

"sex"的水平	"smoker"的水平	数目	charges	
			均值	标准差
female	no	547	8762.2973	6060.7760
female	yes	115	30678.9963	11907.5364
male	no	517	8087.2047	5908.1090
male	yes	159	33042.0060	11202.6709