Pulmonary function study
There are no obvious problems with this dataset

Obs	age	fev	ht	sex	smoke
1	9	1.708	57.0	Female	Nonsmoker
2	8	1.724	67.5	Female	Nonsmoker
3	7	1.720	54.5	Female	Nonsmoker
4	9	1.558	53.0	Male	Nonsmoker
5	9	1.895	57.0	Male	Nonsmoker
6	8	2.336	61.0	Female	Nonsmoker
7	6	1.919	58.0	Female	Nonsmoker
8	6	1.415	56.0	Female	Nonsmoker
9	8	1.987	58.5	Female	Nonsmoker
10	9	1.942	60.0	Female	Nonsmoker

The FREQ Procedure

Sex				
sex	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Female	318	48.62	318	48.62
Male	336	51.38	654	100.00

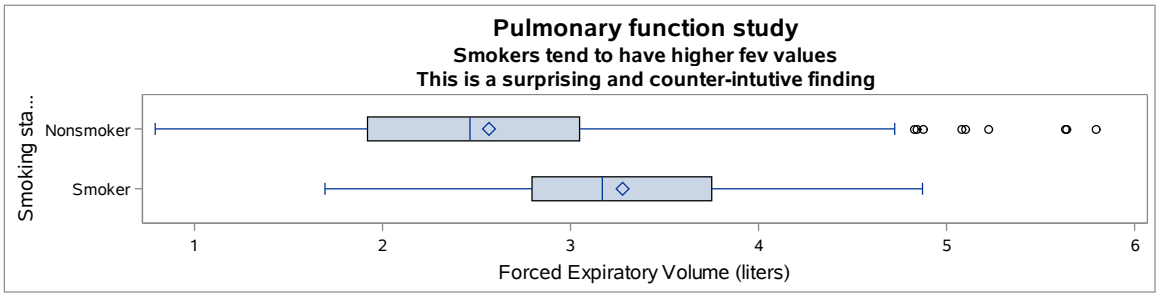
Smoking status				
smoke	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Nonsmoker	589	90.06	589	90.06
Smoker	65	9.94	654	100.00

The MEANS Procedure

Variable	Label	N	N Miss	Mean	Std Dev	Minimum	Maximum
age	Age in years	654	0	9.9311927	2.9539352	3.0000000	19.0000000
fev	Forced Expiratory Volume (liters)	654	0	2.6367798	0.8670591	0.7910000	5.7930000
ht	Height in inches	654	0	61.1435780	5.7035128	46.0000000	74.0000000

Pulmonary function study
All variables show a positive correlations

Obs	_NAME_	age	fev	ht
1	age	1.00	0.76	0.79
2	fev	0.76	1.00	0.87
3	ht	0.79	0.87	1.00


Pulmonary function study
Smokers tend to have higher fev values
This is a surprising and counter-intutive finding
Smoking sta...
Nonsmoker
Smoker
1
2
3
4
5
6
Forced Expiratory Volume (liters)

Pulmonary function study
Descriptive statistics by group

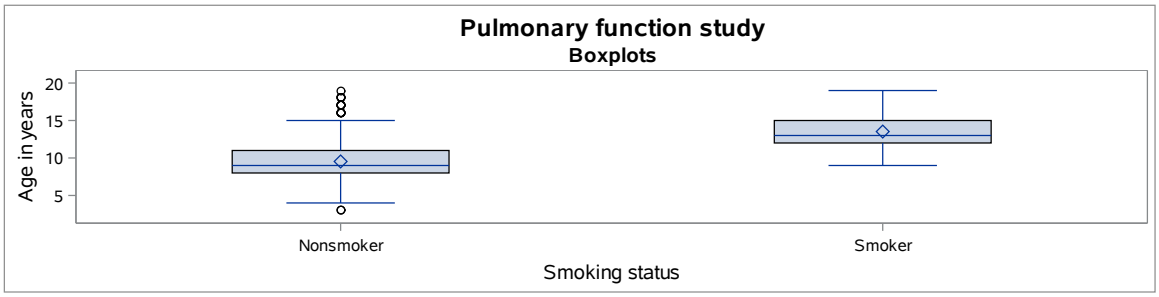
The MEANS Procedure

Smoking status=0

Analysis Variable : fev Forced Expiratory Volume (liters)				
N	Mean	Std Dev	Minimum	Maximum
589	2.5661426	0.8505215	0.7910000	5.7930000

Smoking status=1

Analysis Variable : fev Forced Expiratory Volume (liters)				
N	Mean	Std Dev	Minimum	Maximum
65	3.2768615	0.7499863	1.6940000	4.8720000


Pulmonary function study
Boxplots
Age in years
20
15
10
5
Nonsmoker
Smoker
Smoking status

Pulmonary function study
Descriptive statistics by group

The MEANS Procedure

Smoking status=Nonsmoker

Analysis Variable : age Age in years				
N	Mean	Std Dev	Minimum	Maximum
589	9.5348048	2.7406416	3.0000000	19.0000000

Smoking status=Smoker

Analysis Variable : age Age in years				
N	Mean	Std Dev	Minimum	Maximum
65	13.5230769	2.3392553	9.0000000	19.0000000