Summary statistics for AGE, FEV, and HEIGHT
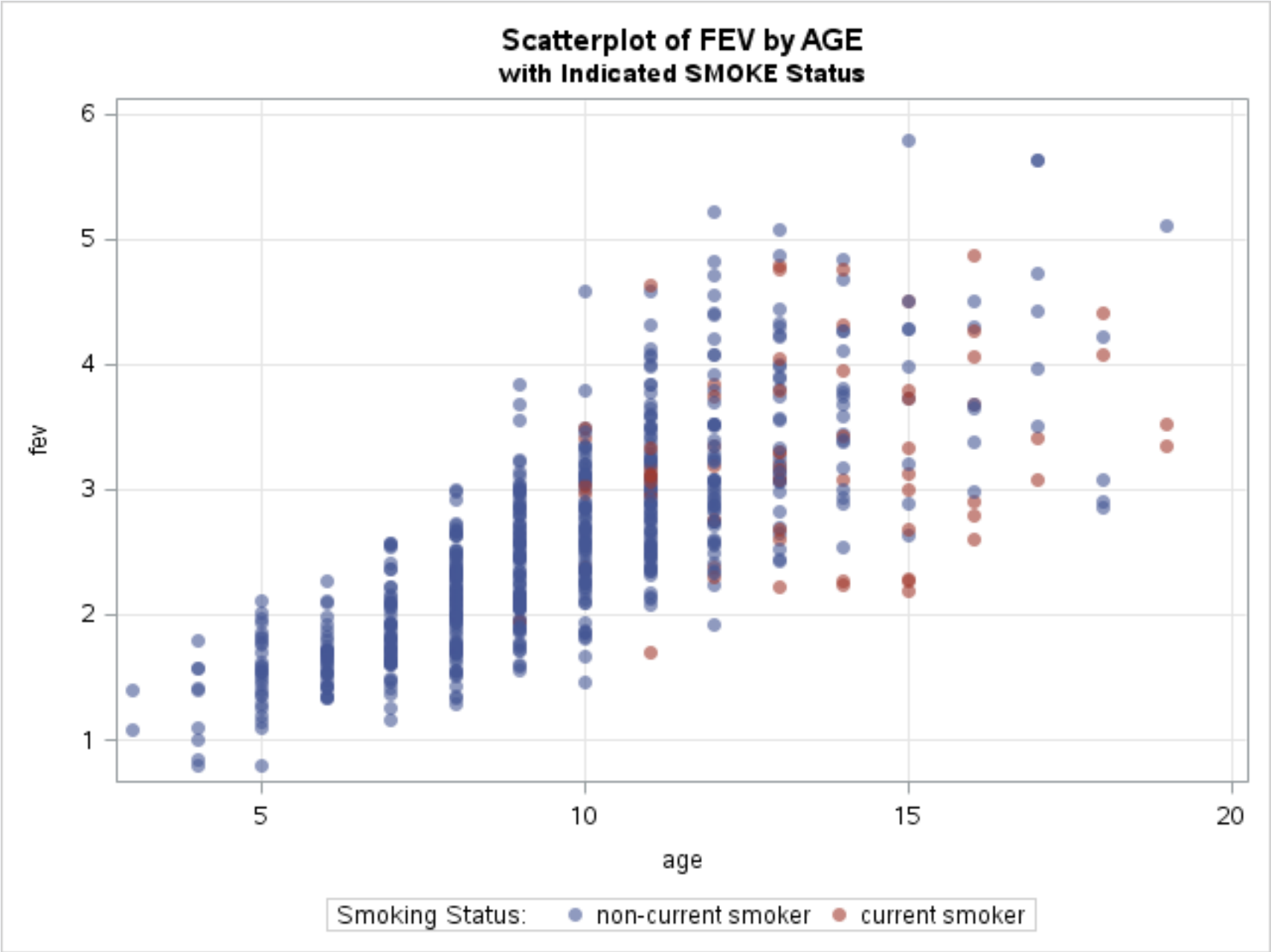
The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
age	654	9.93	2.95	3.00	19.00
fev	654	2.64	0.87	0.79	5.79
height	654	61.14	5.70	46.00	74.00

Scatterplot of FEV by AGE
with Indicated SMOKE Status

Smoking Status: • non-current smoker • current smoker

Age Range for Current Smokers

The MEANS Procedure

sex=female

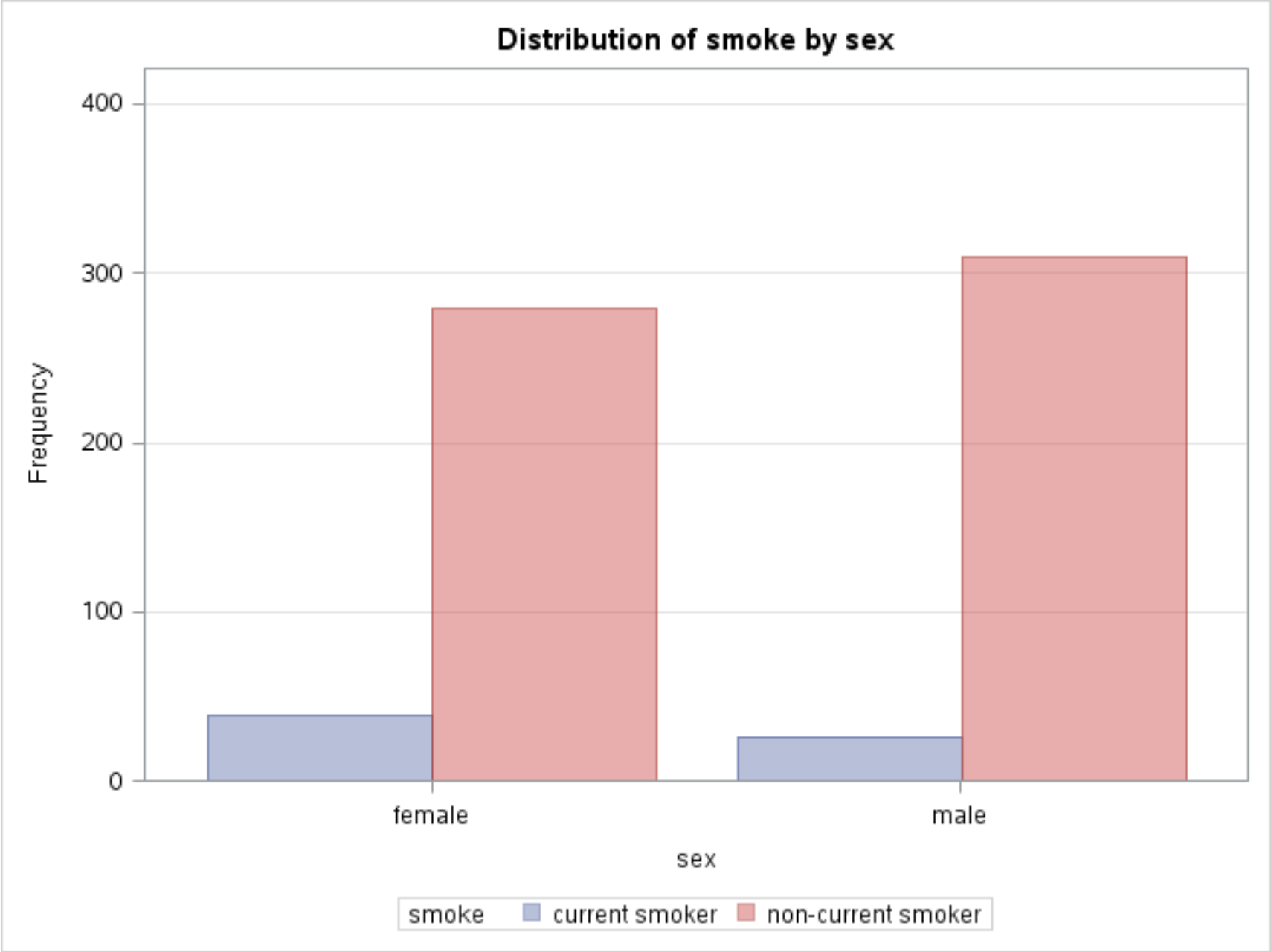| Analysis Variable : age	
Minimum	Maximum
10.00	19.00

sex=male

Analysis Variable : age	
Minimum	Maximum
9.00	18.00

SMOKE status by SEX

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of smoke by sex		
		sex	
smoke	female	male	Total
current smoker	39 5.96 60.00 12.26	26 3.98 40.00 7.74	65 9.94
non-current smoker	279 42.66 47.37 87.74	310 47.40 52.63 92.26	589 90.06
Total	318 48.62	336 51.38	654 100.00

Distribution of smoke by sex

### Statistics for Table of smoke by sex

| Statistic	DF	Value	Prob
Chi-Square	1	3.7390	0.0532
Likelihood Ratio Chi-Square	1	3.7545	0.0527
Continuity Adj. Chi-Square	1	3.2504	0.0714
Mantel-Haenszel Chi-Square	1	3.7333	0.0533
Phi Coefficient		0.0756	

Contingency Coefficient	0.0754
Cramer's V	0.0756

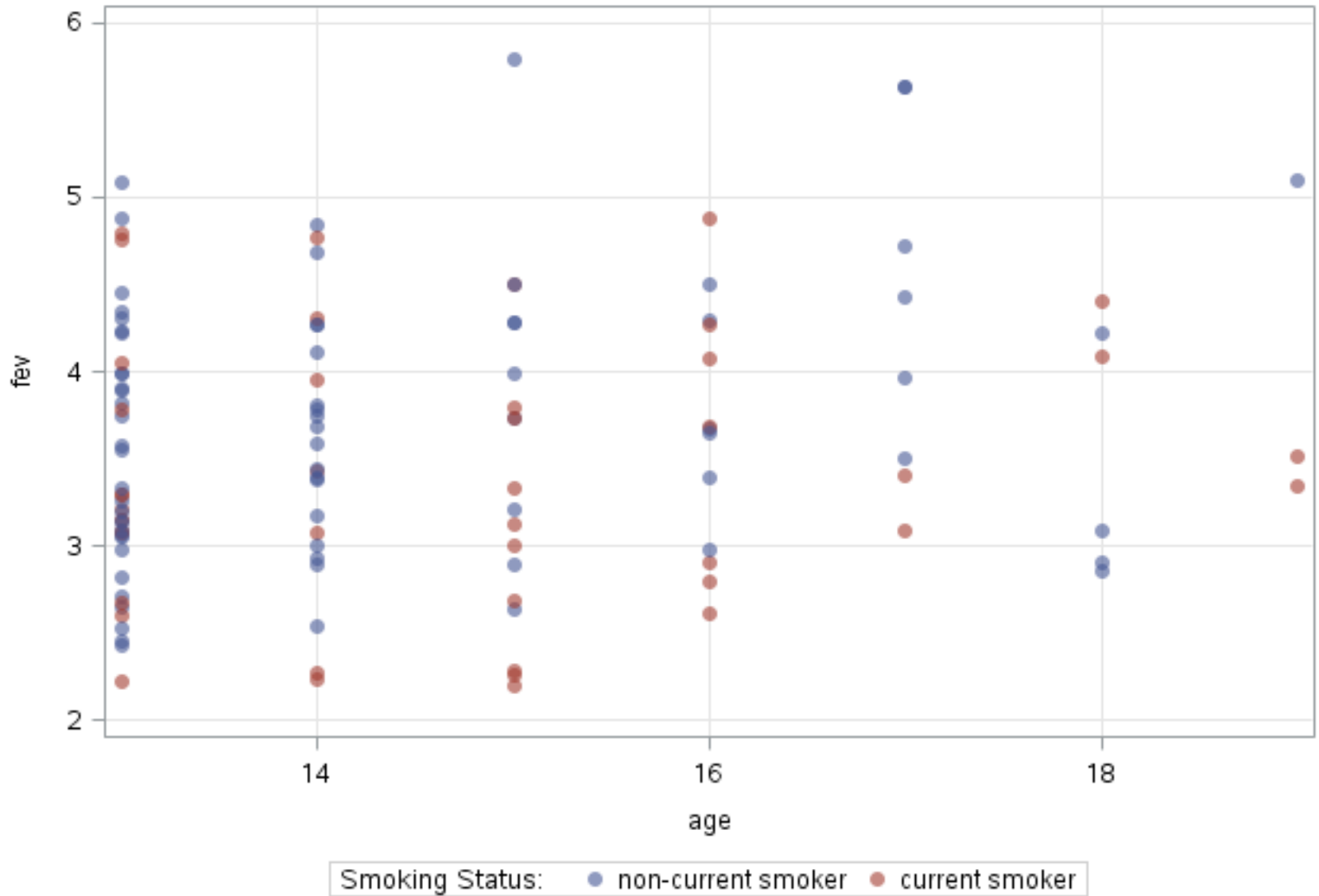| Fisher's Exact Test	
Cell (1,1) Frequency (F)	39
Left-sided Pr <= F	0.9807
Right-sided Pr >= F	0.0355
Table Probability (P)	0.0162
Two-sided Pr <= P	0.0666

Sample Size = 654

Boxplot of FEV by SEX

fev
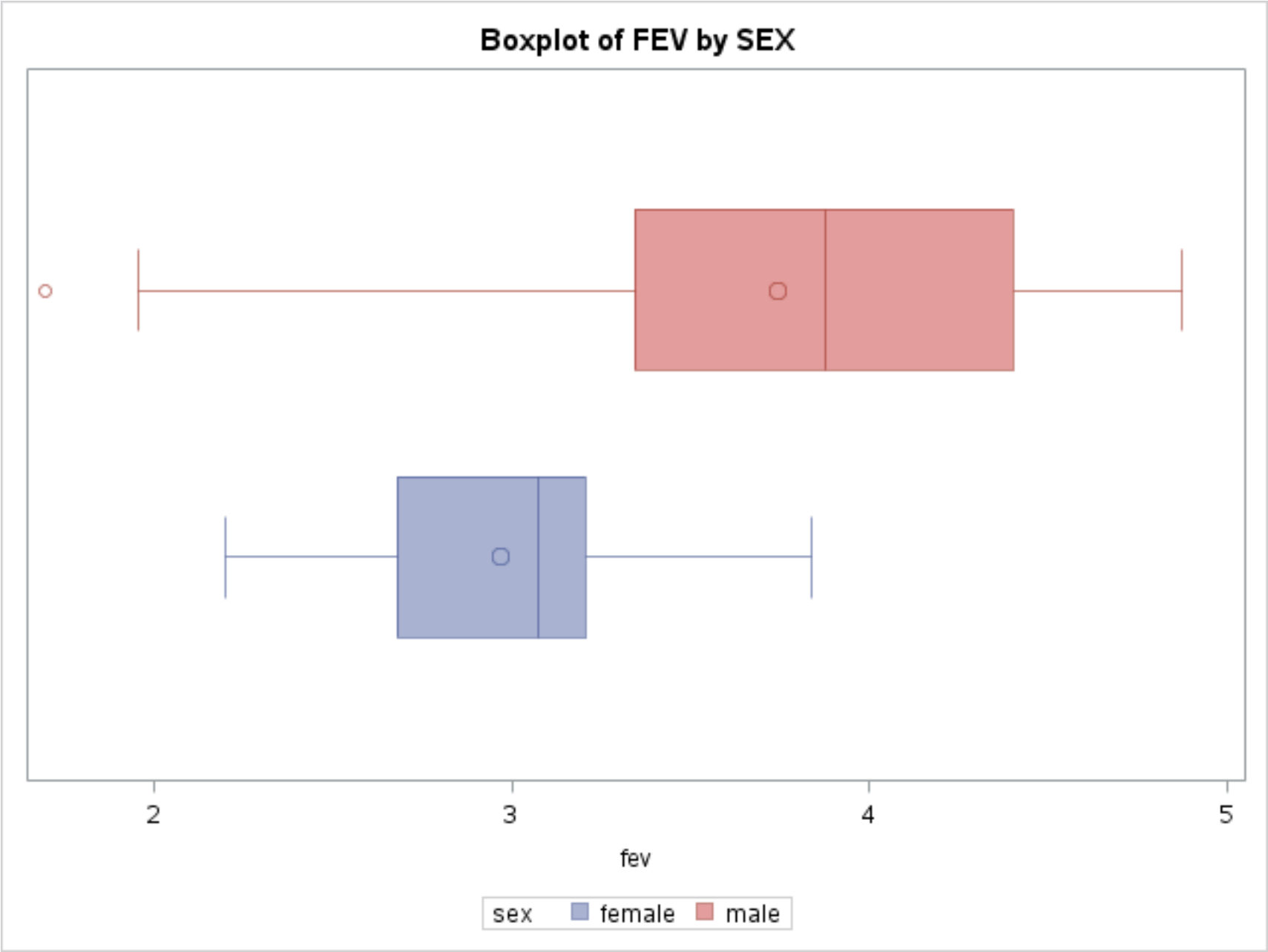
sex ☐ female ☐ male

Histogram of FEV (AGE 13+)
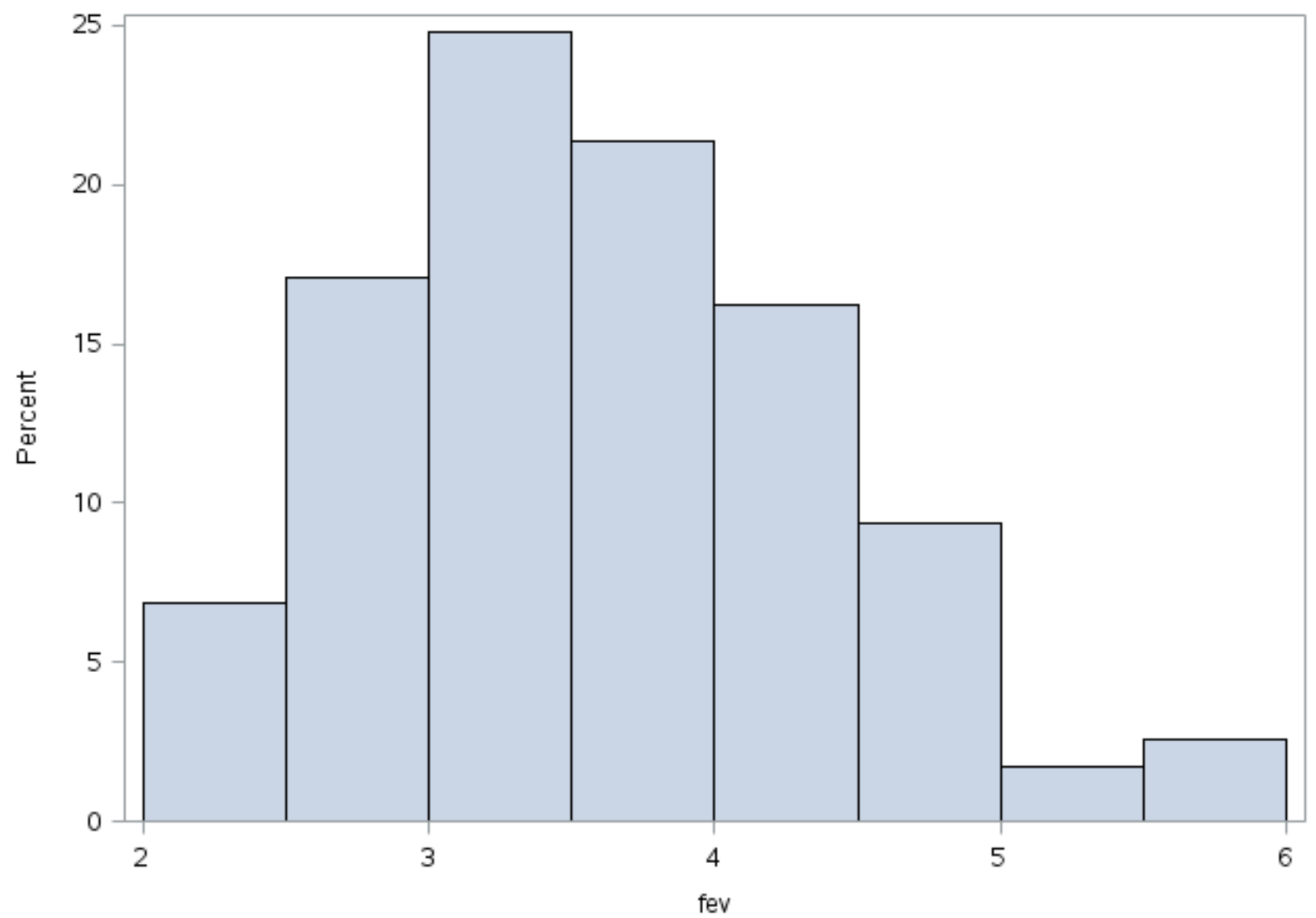
Scatterplot of FEV by AGE
with Indicated SMOKE Status (AGE 13+)

Smoking Status: ● non-current smoker ● current smoker

SMOKE status by SEX (AGE 13+)

The FREQ Procedure

Frequency Percent Row Pct Col Pct	Table of smoke by sex		
	sex		
smoke	female	male	Total
current smoker	25 21.37 58.14 45.45	18 15.38 41.86 29.03	43 36.75
non-current smoker	30 25.64 40.54 54.55	44 37.61 59.46 70.97	74 63.25
Total	55 47.01	62 52.99	117 100.00

Distribution of smoke by sex

### Statistics for Table of smoke by sex

Statistic	DF	Value	Prob
Chi-Square	1	3.3815	0.0659
Likelihood Ratio Chi-Square	1	3.3902	0.0656
Continuity Adj. Chi-Square	1	2.7119	0.0996
Mantel-Haenszel Chi-Square	1	3.3526	0.0671
Phi Coefficient		0.1700	
Contingency Coefficient		0.1676	
Cramer's V		0.1700	

Fisher's Exact Test	
Cell (1,1) Frequency (F)	25
Left-sided Pr <= F	0.9790
Right-sided Pr >= F	0.0497
Table Probability (P)	0.0287
Two-sided Pr <= P	0.0843

Sample Size = 117

Boxplot of FEV by SEX (AGE 13+)
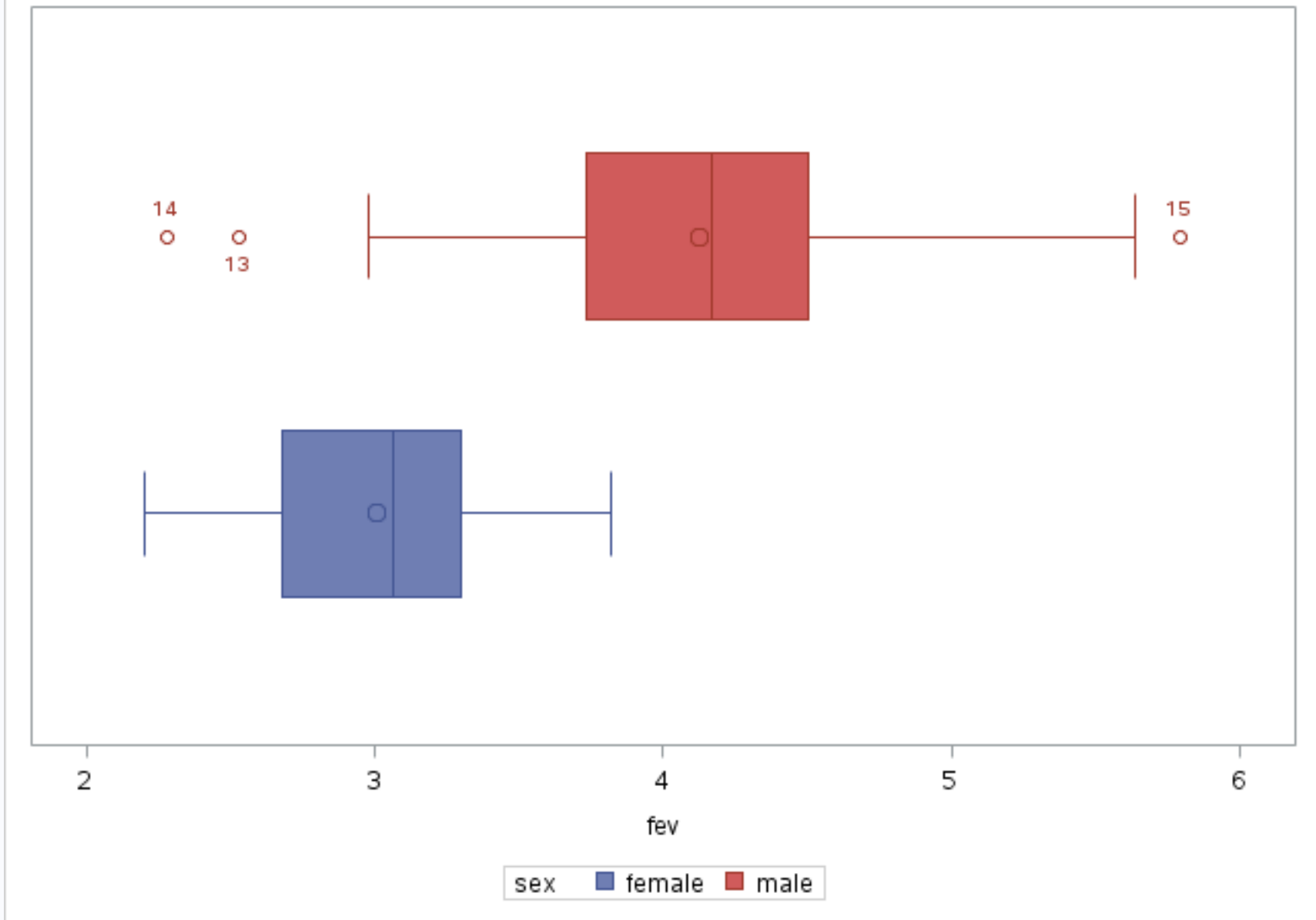
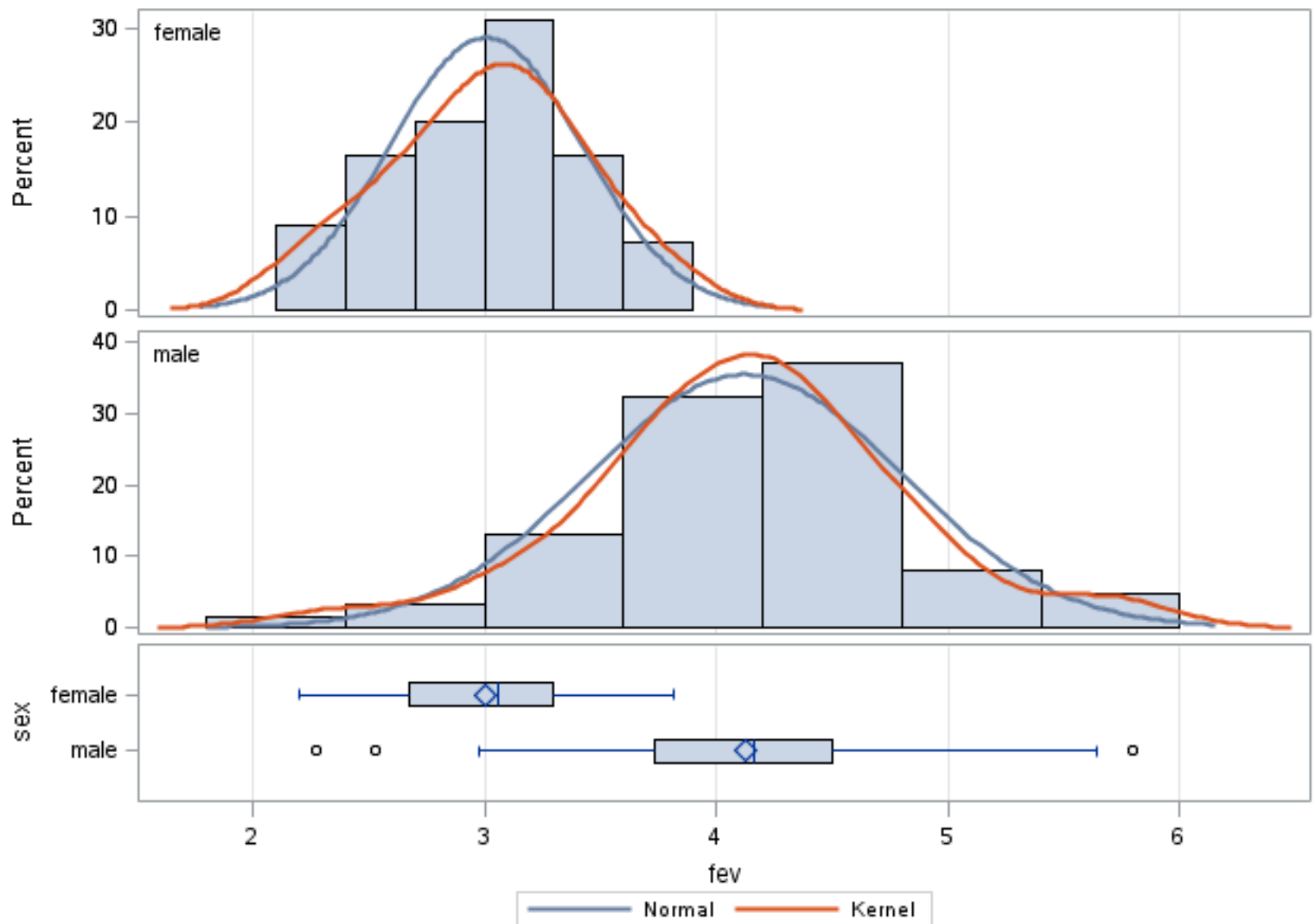## Comparison of Mean FEV by SEX (AGE 13+)

The TTEST Procedure
Variable: fev

sex	N	Mean	Std Dev	Std Err	Minimum	Maximum
female	55	3.0072	0.4126	0.0556	2.1980	3.8160
male	62	4.1248	0.6760	0.0858	2.2760	5.7930
Diff (1-2)		-1.1175	0.5677	0.1052		

| sex	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
female		3.0072	2.8957	3.1188	0.4126	0.3473	0.5082
male		4.1248	3.9531	4.2964	0.6760	0.5744	0.8215
Diff (1-2)	Pooled	-1.1175	-1.3258	-0.9092	0.5677	0.5029	0.6519
Diff (1-2)	Satterthwaite	-1.1175	-1.3204	-0.9146			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	115	-10.63	<.0001
Satterthwaite	Unequal	102.56	-10.92	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	61	54	2.68	0.0003
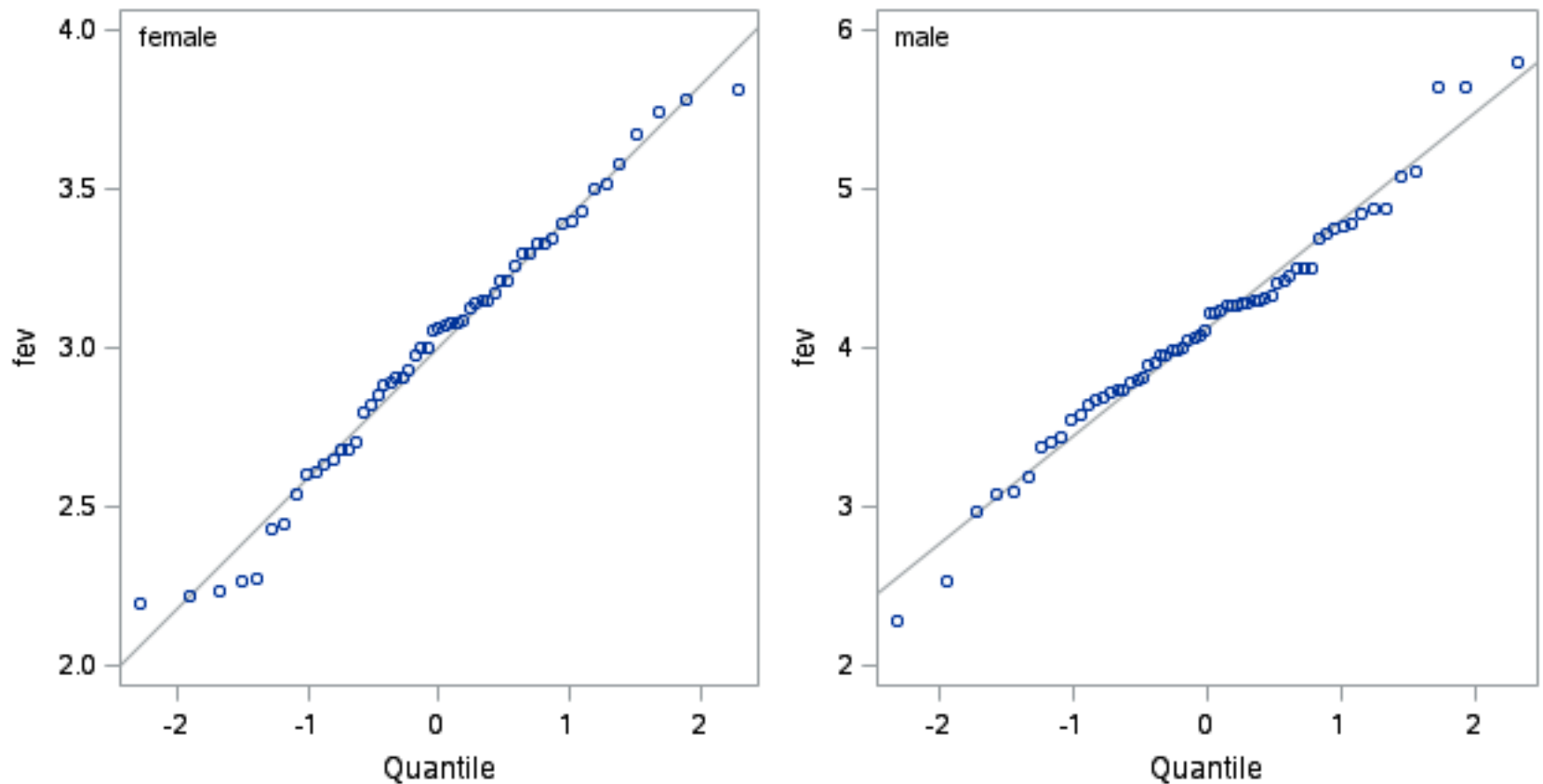
Comparison of Mean FEV for Males (AGE 13+)

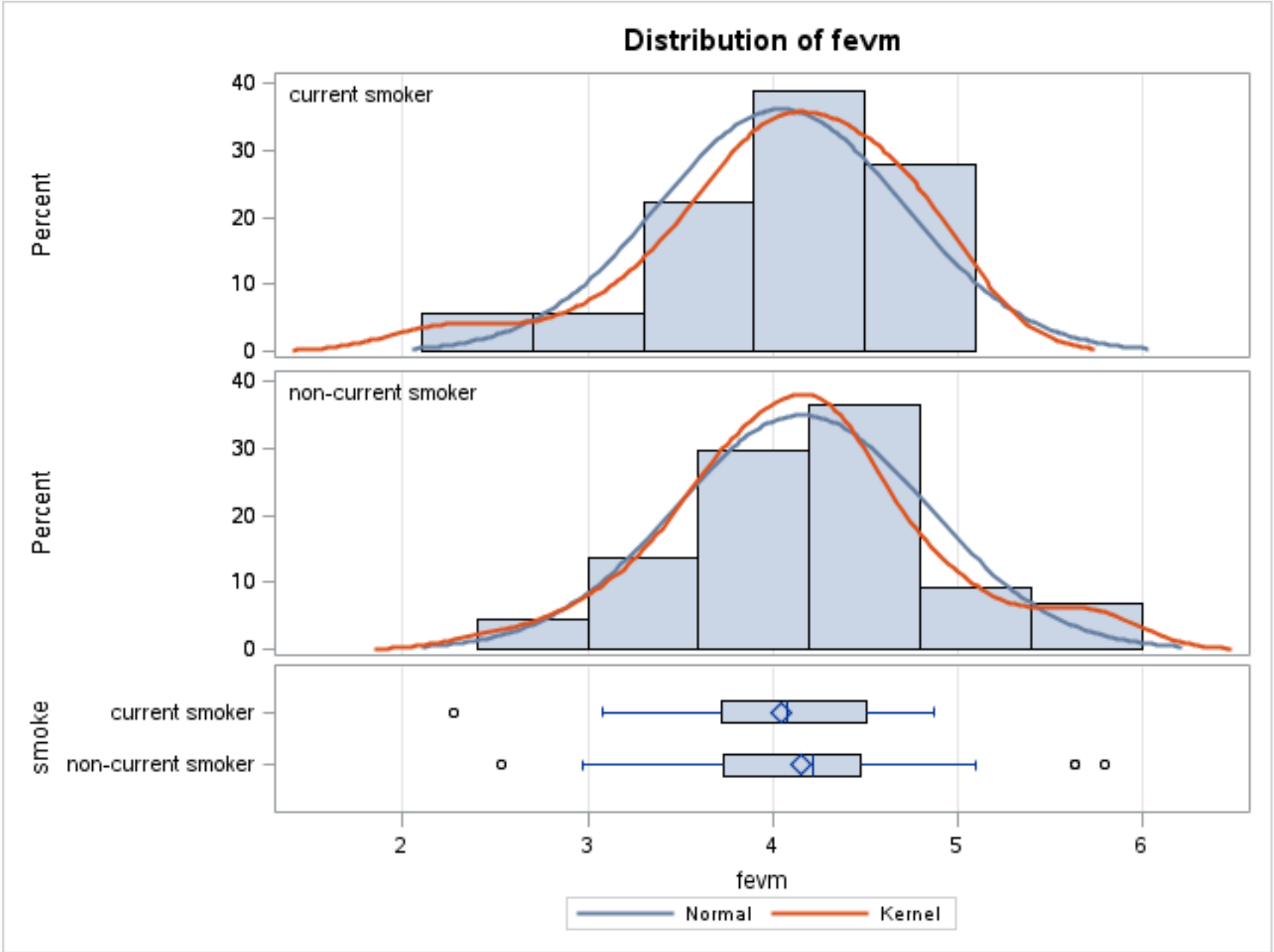The TTEST Procedure
Variable: fevm

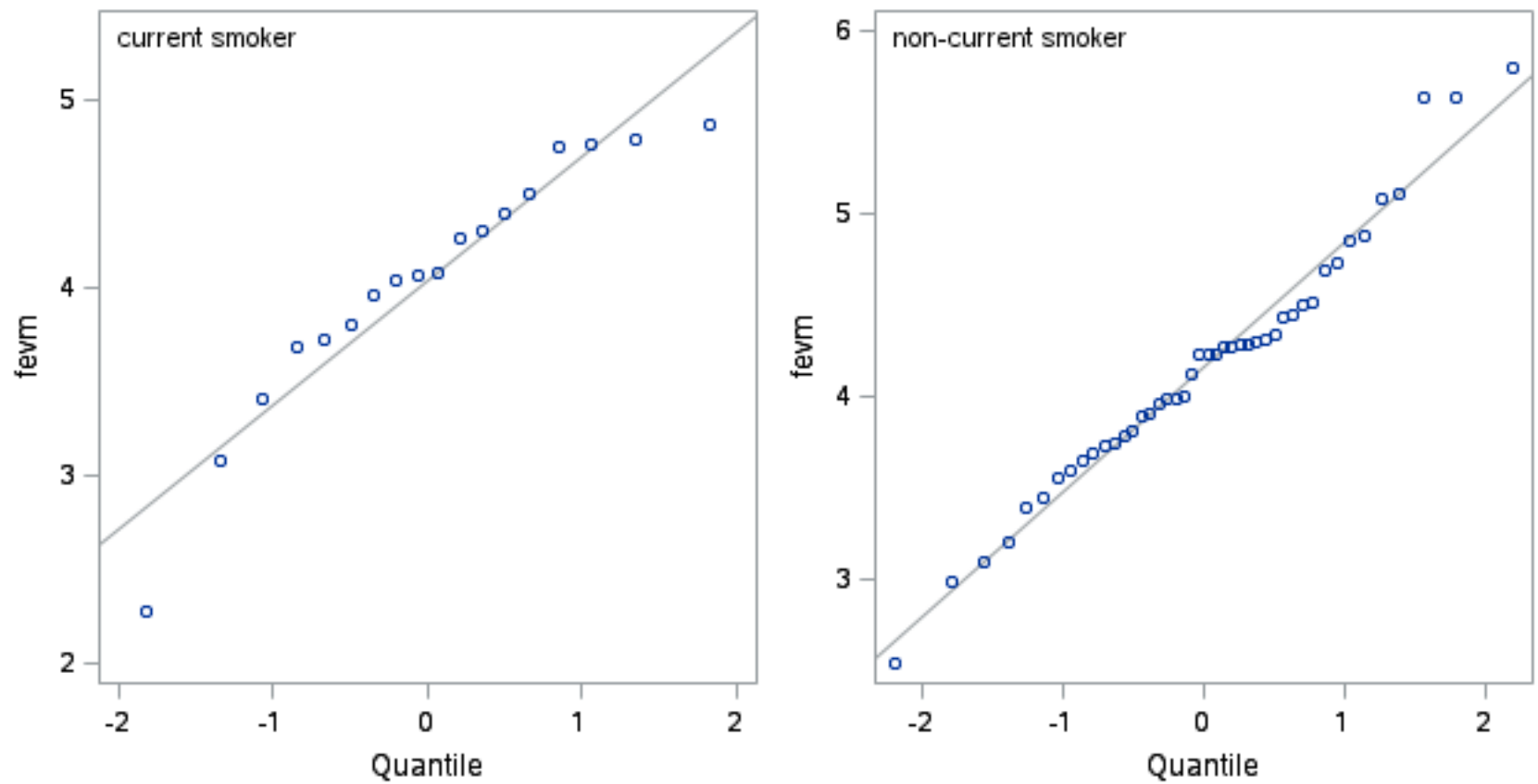| smoke	N	Mean	Std Dev	Std Err	Minimum	Maximum
current smoker	18	4.0447	0.6635	0.1564	2.2760	4.8720
non-current smoker	44	4.1575	0.6859	0.1034	2.5310	5.7930
Diff (1-2)		-0.1128	0.6796	0.1901		

smoke	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
current smoker		4.0447	3.7148	4.3747	0.6635	0.4979	0.9947
non-current smoker		4.1575	3.9490	4.3660	0.6859	0.5667	0.8690
Diff (1-2)	Pooled	-0.1128	-0.4931	0.2676	0.6796	0.5768	0.8274
Diff (1-2)	Satterthwaite	-0.1128	-0.4944	0.2688			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	60	-0.59	0.5553
Satterthwaite	Unequal	32.643	-0.60	0.5516

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	43	17	1.07	0.9185

Distribution of fevm

Q-Q Plots of fevm

Comparison of Mean FEV for Females (AGE 13+)

The TTEST Procedure
Variable: fevf

smoke	N	Mean	Std Dev	Std Err	Minimum	Maximum
current smoker	25	2.9271	0.4527	0.0905	2.1980	3.7850
non-current smoker	30	3.0740	0.3704	0.0676	2.4340	3.8160
Diff (1-2)		-0.1469	0.4097	0.1110		

| smoke	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
current smoker		2.9271	2.7403	3.1140	0.4527	0.3535	0.6298
non-current smoker		3.0740	2.9357	3.2123	0.3704	0.2950	0.4979
Diff (1-2)	Pooled	-0.1469	-0.3694	0.0757	0.4097	0.3444	0.5058
Diff (1-2)	Satterthwaite	-0.1469	-0.3743	0.0805			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	53	-1.32	0.1912
Satterthwaite	Unequal	46.317	-1.30	0.2001

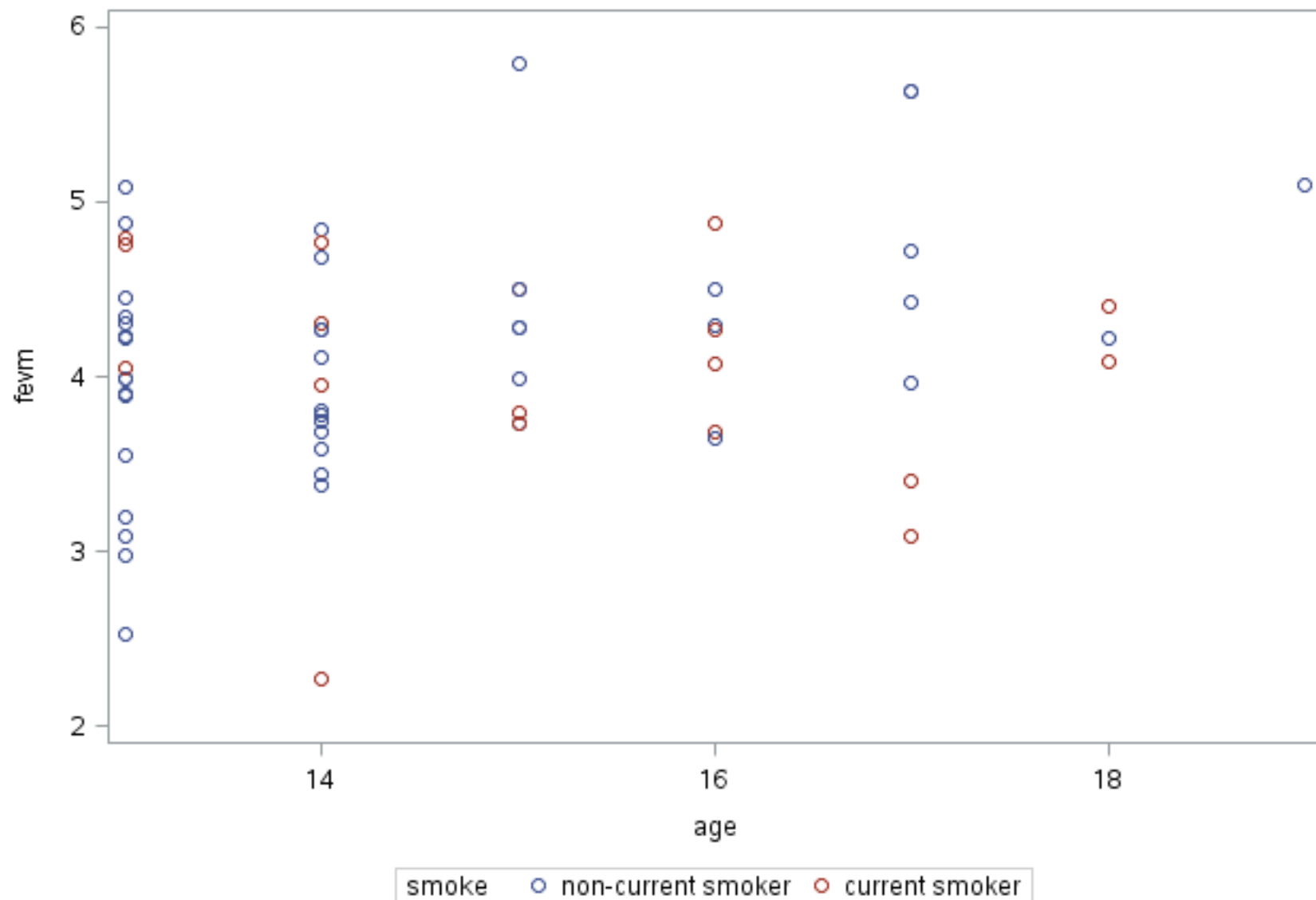| Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	24	29	1.49	0.3011

Distribution of fevf
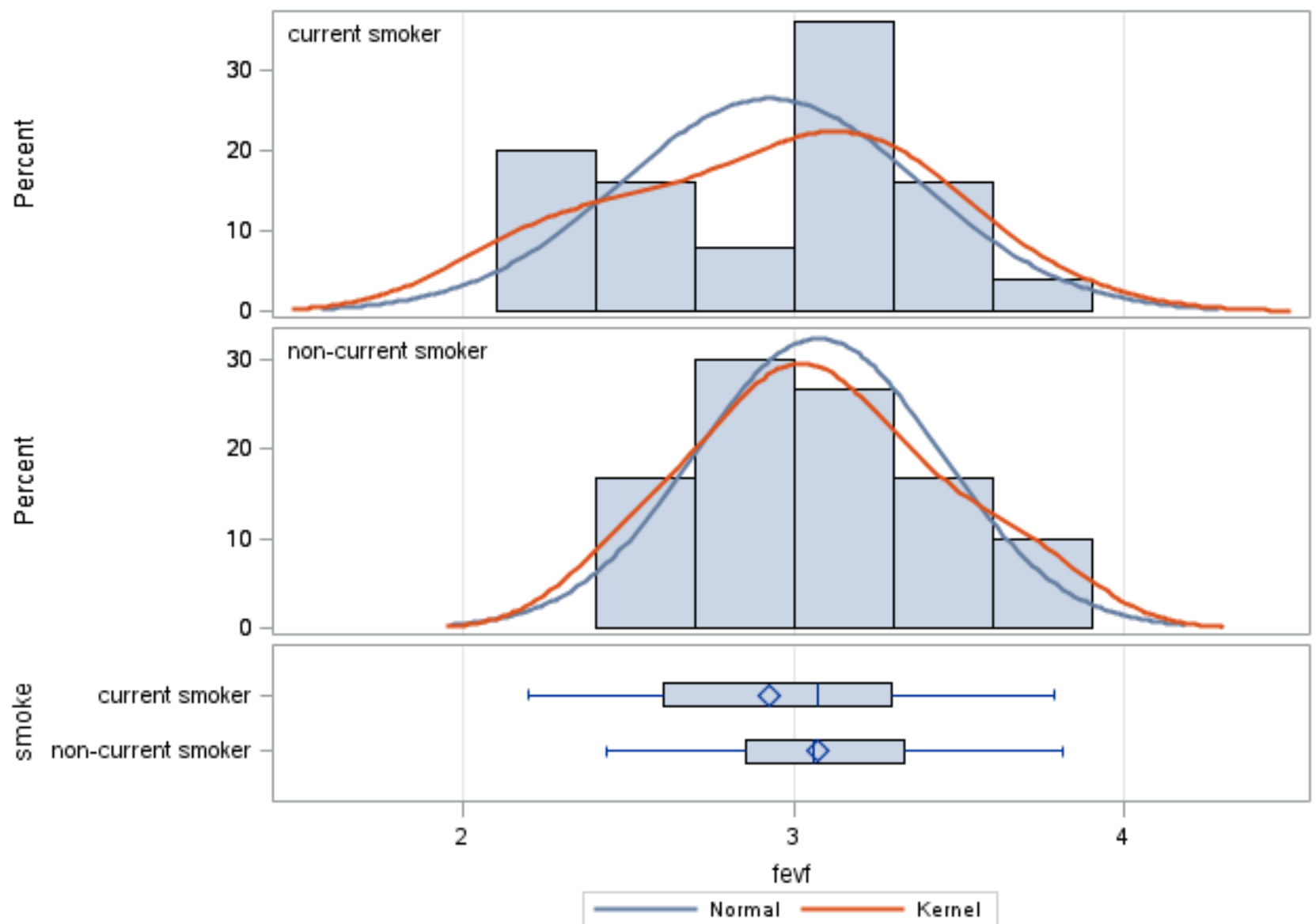
Q-Q Plots of fevf
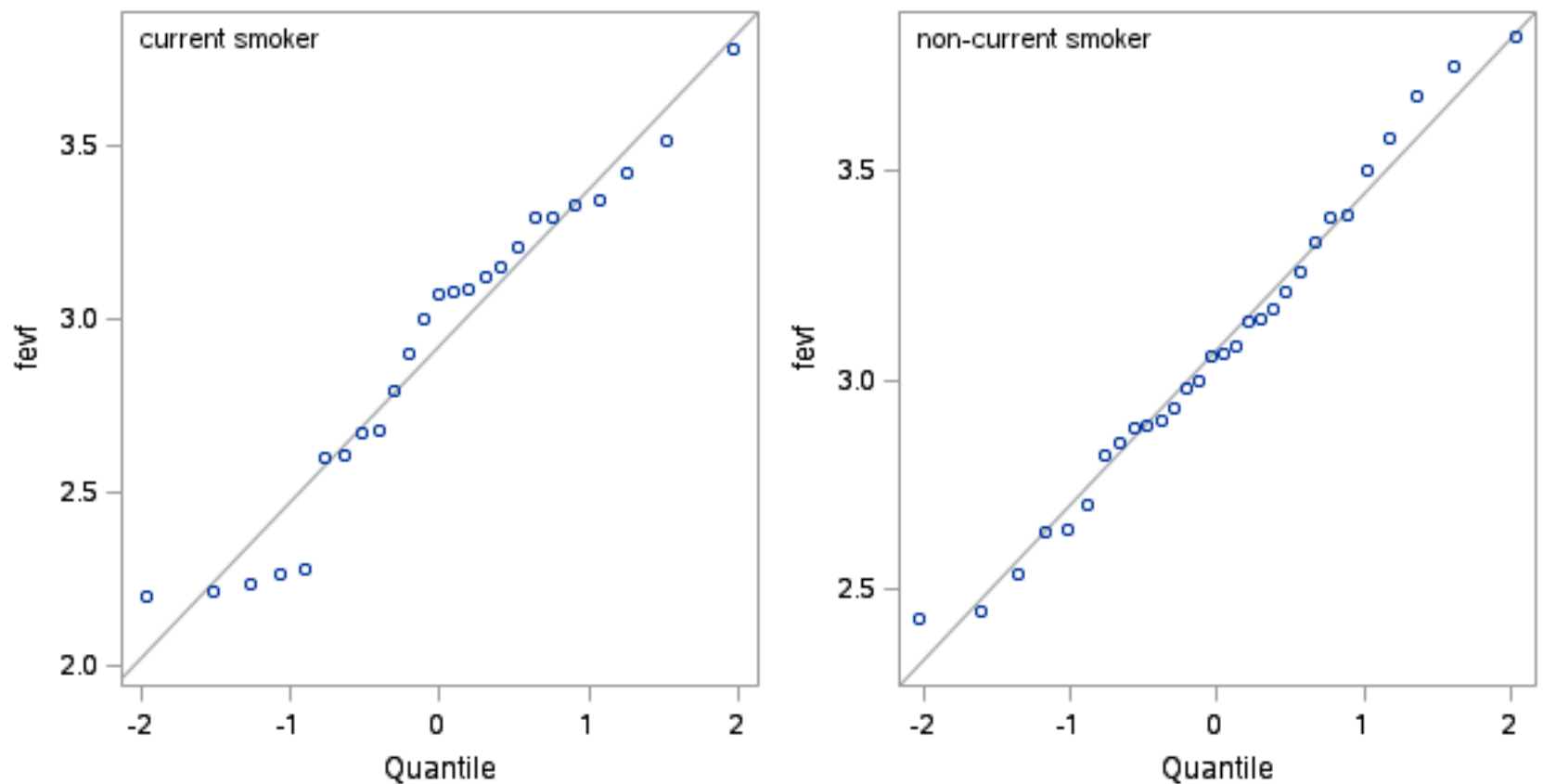
Scatterplot of FEV by AGE for Males (AGE 13+) with Indicated SMOKE Status

Scatterplot of FEV by AGE for Females (AGE 13+) with Indicated SMOKE Status