

## Solutions to Handout #8

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Explanatory: Seatbelt

Response: Fatal Injury

$$\frac{510}{412878} = 0.0012$$

$$\frac{1601}{164128} = 0.0098$$

Answer:

Yes, people are less likely to have a fatal accident if they are wearing a seatbelt, based on this data. About 0.12% of ~~see~~ those who wore seatbelts suffered a fatal injury while about 0.98% of those who didn't wear seatbelts suffered a fatal injury. Those who didn't were more than 8 times as likely to die.

## Handout #8, problem 2

Explanatory: Aspirin

$$\frac{104}{11037} = 0.0094$$

Response: Heart Attack

$$\frac{189}{11034} = 0.0171$$

Yes. This data suggests that taking aspirin reduces the risk of heart attack. About 0.94% of those who took aspirin suffered a heart attack, while about 1.71% of those who didn't had a heart attack.

Those who did not take aspirin were about 1.8 times as likely to have a heart attack.

# Solutions to Handout #8, problem 3.

Explanatory: Anger level

Response: Heart Disease (CHD)

Low Anger	Medium Anger	High Anger
$53/3110$	$110/4731$	$27/633$
0.0170	0.0233	0.0427

These data do suggest that angry people have more heart disease. Among the "low anger" group, about 1.7% have heart disease as compared to about 2.33% of the "moderate anger" group and about 4.27% of the "high anger" group. We can even see that as one tends to be more angry, there tends to be a higher instance of heart disease.