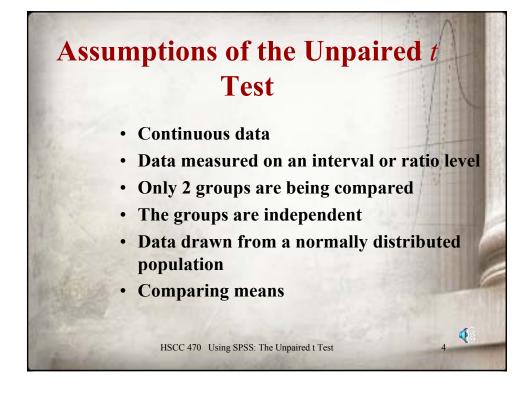
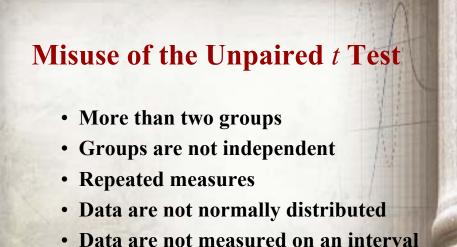


Hypotheses				
Scale of Measurement	Two Treatment Groups Consisting of Different Individuals	Three or More Treatment Groups Consisting of Different Individuals	Before and After a Single Treatment in the Same Individuals	Association Betwee Two Variables
Interval	Unpaired <i>t</i> test	ANOVA	Paired t test	Linear Regression
Nominal	Chi-square	Chi-square	McNemar's test	Contingency Coefficients
Ordinal	Mann-Whitney rank-sum test	Kruskal-Wallis statistic	Wilcoxon signed-rank test	Spearman Rank Correlation





HSCC 470 Using SPSS: The Unpaired t Test

scale

Conducting an Unpaired t Test
Using SPSS

• Assumptions

- Scale of measurement

• Continuous data measured on an interval scale

- Population distribution

• Kolmogorov-Smirnov Test - p > 0.05

- Method of sampling

• Randomized, 2 independent samples

- Sample size

• Control N = 200

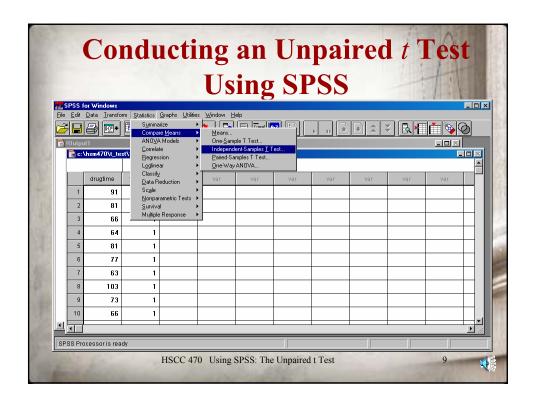
• Experimental N = 200

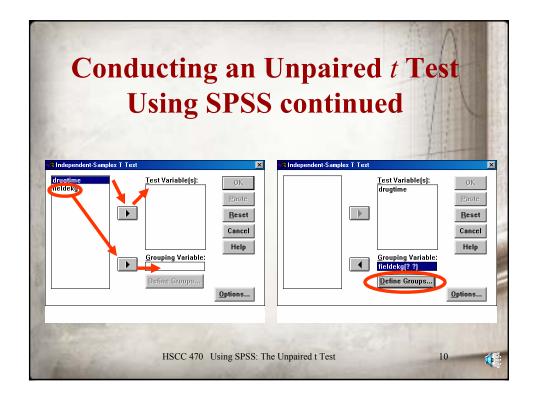
Conducting an Unpaired t Test Using SPSS continued

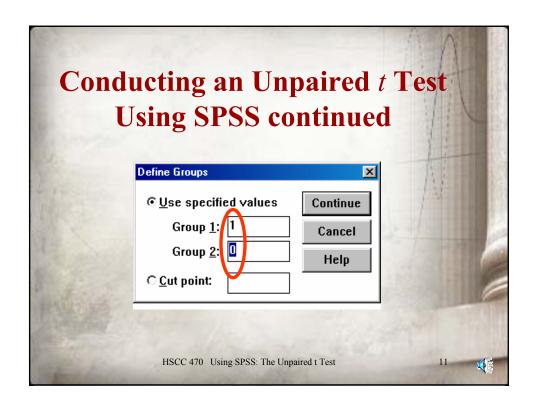
- Hypotheses
 - Null
 - There is no difference in the door-to-drug time of patients receiving 12 lead EKGs in the field, when compared with patients who do not receive field 12 leads.
 - Alternative
 - There is a difference in the door-to-drug time of patients receiving 12 lead EKGs in the field, when compared with patients who do not receive field 12 leads.
- Select Alpha Level
 - Alpha = 0.05
- Test statistic
 - Unpaired t Test

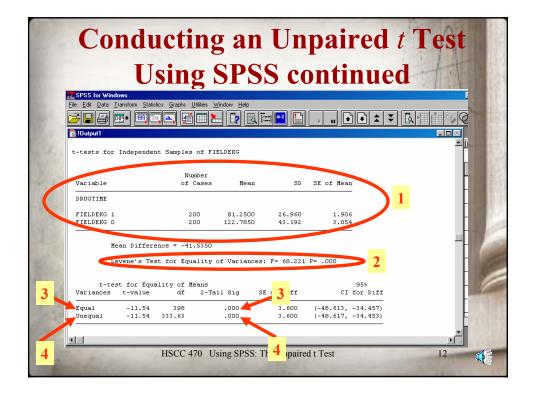
HSCC 470 Using SPSS: The Unpaired t Test

Conducting an Unpaired t Test Using SPSS continued • P-value • Conclusion









Conducting an Unpaired t Test Using SPSS continued

- P-value
 - -P = 0.000
- Conclusion
 - P value is less than alpha. Therefore, we reject the null hypothesis and conclude that there is a difference in door-to-drug times between patients receiving prehospital 12 leads when compared to those who do not.

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