## STATISTICS 3 WS 2017 (Mag. Thomas Forstner)

Course-Number: 366.542

9) In a clinical experiment the effect of the actual time of measurement on the resting heart rate was examined. Five patients who suffered from a mitral valve prolapse were examined in the morning, at midday and in the evening. The research question is, if the heart rates vary over time.

	Resting heart rate [min <sup>-1</sup> ]				
Morning	80	77	71	72	75
Midday	84	74	81	80	79
Evening	76	76	74	73	74

(Normal-distribution can be assumed.)

Test for a global difference over time (type I error = 5%). If a significant global difference exists use an appropriate method to conduct multiple pairwise comparisons.

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