

STATISTICS 3
WS 2017 (Mag. Thomas Forstner)

Course-Number: 366.542

- 14) 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^{-1}]				
Morning	80	77	71	72	72
Midday	84	74	81	80	82
Evening	81	85	94	93	121

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.