



Clinical Study Synopsis for Public Disclosure

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A synopsis is not intended to provide a comprehensive analysis of all data currently available regarding a particular drug. More current information regarding a drug is available in the approved labeling information which may vary from country to country.

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Name of company: Boehringer Ingelheim		Tabulated Study Report SUPPLEMENTARY SHEET		(For National Authority Use only)
Name of finished product: MICARDIS				
Name of active ingredient: BIBR 277, Telmisartan		Page:	Number:	
Ref. to Documentation:	Volume:	Page: to		
Report date: 27 August 2004	Number: U04-3363	Study period (dates): 19 July 2002 to 31 August 2002		
batch no.: B02059				
Criteria for evaluation Pharmacokinetics				
Efficacy: primary endpoints: C_{max} and AUC_{0-72hr} secondary endpoints: individual time courses of the Telmisartan plasma concentrations, t_{max} , $t_{1/2}$, $AUC_{0-\infty}$ and $MRT_{0-\infty}$				
Safety: Clinical examination including physical examination, vital signs, ECG; laboratory tests and adverse events				
Statistical methods: The pharmacokinetic parameters C_{max} and AUC_{0-72hr} are log transformed (natural logarithm) prior to fitting the ANOVA model. The difference between the expected means for $\log(\text{Test})-\log(\text{Reference})$ is estimated by the difference in the corresponding Least Square Means (point estimate) and two-sided 90% confidence intervals (CI) based on the t-distribution are computed. These quantities are then back-transformed to the original scale to give the point and interval estimates for the expected median (intra-subject) ratio between response under test and response under reference. A claim of bioequivalence is made if the CI of C_{max} and AUC_{0-72hr} for the drug formulations on the original scale are contained in the range of 80-125% (BE acceptable range).				
SUMMARY – CONCLUSIONS:				
Efficacy results: The ratios of gmean values of C_{max} and AUC_{0-72hr} of tablet to those of the capsule were 100.5% and 97.5%, respectively. The 90% CIs were 88.1 – 114.7% for C_{max} and 90.8 – 104.6% for AUC_{0-72hr} . These were all within the BE acceptance range.				
Safety results: There was no clinically significant difference in safety profiles after single administration between the tablet and the capsule. The tablet (Mannitol based) has no matter in terms of safety compared with the capsule.				
Conclusions: The 90% CI values of log-transformed C_{max} and AUC_{0-72hr} were within the BE acceptance range, and therefore the capsule and the test tablet of 20 mg BIBR 277 were proven to be bioequivalent. There were no clinical subjective and objective symptoms during the study. There was no clinical abnormality related to the investigational products in the physiologic and medical examination. Single administration of BIBR 277 tablet (Mannitol based) had no matter in terms of safety.				