Title : A COMPARISON OF MULTILEVEL PATH ANALYSIS BETWEEN CLASSICAL
METHOD (OLS SEPARATE EQUATION APPROACH) AND HIERARCHICAL
LINEAR MODEL (HLM APPROACH) : THE STUDY FACTORS INFLUENCING
IN THE EFFECTIVENESS OF CIVIL SERVICE UNDER THE PROVINCIAL
PUBLIC HEALTH OFFICE

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The purposes of this research were to develop and compare the multilevel causal analysis model between Classical method (OLS separate equation approach) and Hierarchical Linear model (HLM approach) with path coefficients , t-value and the significant of path coefficient of Classical method and HLM in hypothetical and adjusted model . The sample was civil service under public health office province from 40 provinces about 1,640 persons. The instruments were questionnaires 3 path ; micro-level independent measurement , macro-level independent measurement and efficient measurement.

The results were as follow :

1. Correlation of path coefficient and t-value in micro-level hypothetical model between classical method and HLM approach were very highly significant at .01 level.

2. Correlation of path coefficient and t-value in micro-level adjusted model between classical method and HLM approach were very highly significant at .01 level.

3. Correlation of path coefficient and t-value in macro-level hypothetical model between classical method and HLM were not significant.

4. Correlation of t-value in macro-level adjusted model between classical method and HLM approach was very highly significant at .01 level, while correlation of path coefficient was not significant.