

A META-ANALYSIS ON ALTERNATIVE MEASUREMENT AND ASSESSMENT INSTRUMENTS

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Abstract

This study aims to evaluate the studies done on the alternative measurement and assessment instruments with a meta-analytical method. Both qualitative and quantitative methods of meta-analysis were used in the study. The research group of the study consists of the studies done in the field of program evaluation within the years of 2004-2011. 128 studies were reached within this context. In the qualitative meta-analysis, all of the 128 studies were included, while only 6 studies bearing the criteria determined beforehand were included in the quantitative meta-analysis. Some of the findings are as follow: The data included in the meta-analysis were calculated according to the Standard effect model as; in 0.341 standard error and 95 % confidence interval the top border 0.818 and the bottom border 0.527 the effect size as 0.146,. The statistical significance (according to z-test) was found to be 0.424 ($p=.671$). The Q-statistics value (test of homogeneity) was observed to be 8.156 . The fact that Q value was so low means that the variance is low. Moreover, according to this Q-value, it was suggested that instead of the random effect model, the Standard effect model should be used. The mean effect size value was calculated as $ES=0.146$. In other words, it was seen that the effect of gender on using alternative measurement instruments was in the positive way (.146).

Key Words: Alternative measurement instruments, meta-analysis, program evaluation.