

## Related Factors of Socialization Process in Occupational Therapy Students: Using Fuzzy-Set Qualitative Comparative Analysis

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**Objective.** There are few studies of socialization of occupational therapy students. At 4th Asia Pacific Occupational Therapy Congress, we have already reported the results of the survey regarding socialization of occupational therapy students. The purpose of this study was to examine the related factors in OTS's socialization process using **fuzzy-set Qualitative Comparative Analysis (fsQCA)**.

**Methods.** The subjects were thirty-five students in the first year of university. The study design was a survey using self-questionnaire. Previously, we informed and were given their consent for the survey. The questionnaire consisted of one item (**outcome**) and seven items (**causal conditions**). The outcome was "subjective progress of socialization, **So**". On the other hand, the causal conditions were composed of the following; (1)"level of subjective health, **He**", (2)"experience in clinical setting, **Cl**", (3)"level of human oriented attitude, **Hu**", (4)"level of medical ethics, **Et**", (5)"finding adequate models, **Mo**", (6)"level of self esteem, **Se**", (7)"level of interest in occupational therapy, **In**". We carried out fsQCA that was based on the Boolean algebra and was developed by Ragin, C. as sociologist. We also conducted the analysis using *fs/QCA2.2 for Windows*, and *Microsoft Office Excel 2007 for Windows*. The data was obtained by 4-point scale, and the original data rescale to fit the fuzzy-set metric using these softwares (data calibration).

**Results.** Thirty-five questionnaires were included for analysis. The response rate was 100%. We composed a true table to derive a Boole equation using the Fuzzy Truth Table Algorithm in *fs/QCA2.2*. As the result of analysis of sufficient conditions, **solution coverage** (as the proportion of memberships in the outcome that is explained by the complete solution) and **unique coverage** (the proportion that memberships in the outcome explained solely by each individual solution) for the solution term "**IN\*ET\*HU\*HE**" are 0.937 and 0.057. The coverage score of this solution term is the highest value rather than the score of other solution term.

**Conclusion.** We think that occupational therapy teacher need to secure **high interest in occupational therapy** and **high medical ethics** and **high human oriented attitude** and **high subjective health** for student's socialization in term of the coverage.