Title : A DEVELOPMENT OF THE RESPONSIBILITY TEST FOR PHYSICIAN
STUDENTS : VERIFICATION OF TWO CONSTRUCT VALIDITY
METHODS

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The purposes of this research were to construct and develop an appropriate quality
of Responsibility Test for Physician students using the Factor Analysis and the Multitrait-
Multimethod Matrix to examine the construct validity. The sample used in this research
were 113 fourth year Physician students in the academic year 1998, faculty of Medicine
in the Increase Product of Physician Project between the Office of University Affairs and
Ministry of Public Health.

The four instruments used were the California Psychological Inventory Personal
Test (CPI) (responsibility part), the Sixteen Personal Questionnaire, Form B (anxiety part),
the Symtom Distress Checklist −90 (SCL−90) (anxiety part) and the Responsibility Test
for Physician students.

The data obtained were analyzed using the SPSS/PC$^+$ Program to determine item
discrimination index, reliability and validity of the tests. The major findings were as
follows:

1. The Responsibility Test for Physician students consisted of 50 items, the
discrimination index (t−test independent) ranged from 1.76 to 9.48 and the reliability
(α−coefficient) was .89

2. The Responsibility Test for Physician students consisted of 10 factors. The total
variance contributed was 62.6 percents.

3. The convergent validity was established by correlating the Responsibility Test
for Physician students and CPI Test. The correlation was .98 which was significant at
.01 level.

4. The discrimination validity was established by correlating the Responsibility Test
for Physician students and the Sixteen Personal Questionnaire, Form B. The correlation was
−.19 which was significant at .05 level. The correlation between the Responsibility Test for
Physician students and the Symtom Distress Checklist −90 (SCL−90) was −.24 which was
significant at .05 level.

The Multitrait- Multimethod Matrix showed strong support for the convergent and discriminant validity of the Responsibility Test for Physician students. Thus the construct validity of the Responsibility Test was found.