Chapter-III
Research Design
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RESEARCH DESIGN

PURPOSE

Reviewing the vast panorama of research investigations and theoretical foundations, present investigation aims at understanding the psyche of girls regarding the types of defense mechanisms they use and how they are related with some of the variables i.e., Locus of control, self confidence, anger expression and adjustment. More specifically the study was undertaken to fulfill the aims of the study given below:

1] To study the relationship between different defense mechanisms viz Turning against object (TAO), Projection (PRO), Principalization (PRN), Turning against self [TAS], Reversal (REV) and locus of control among college entrant girls.

2] To study the relationship between different defense mechanisms viz Turning against object (TAO), Projection (PRO), Principalization (PRN), Turning against self [TAS], Reversal (REV) and self confidence among college entrant girls.

3] To study the relationship between different defense mechanisms viz Turning against object (TAO), Projection (PRO), Principalization (PRN), Turning against self [TAS], Reversal (REV) and anger expression among college entrant girls.
4] To study the relationship between different defense mechanisms viz Turning against object (TAO), Projection (PRO), Principalization (PRN), Turning against self [TAS], Reversal (REV) and adjustment among college entrant girls.

5] To study factor structure of covariance of defense mechanisms viz Turning against object (TAO), Projection (PRO), Principalization (PRN), Turning against self [TAS] and Reversal (REV) variables with locus of control, self confidence, anger expression and adjustment among college entrant girls.

**HYPOTHESES**

The following hypotheses were raised in conformity with the purposes of study:

1] Turning against object (TAO) defense mechanism will be found significantly related to locus of control among college entrant girls.

2] Turning against object (TAO) defense mechanism will be found significantly related to self confidence among college entrant girls.

3] Turning against object (TAO) defense mechanism will be found significantly related with anger expression among college entrant girls.

4] Turning against object (TAO) defense mechanism will be found significantly related to adjustment among college entrant girls.

5] Projection (PRO) defense mechanism will be found significantly related to locus of control among college entrant girls.
6] Projection (PRO) defense mechanism will be found significantly related to self confidence among college entrant girls.

7] Projection (PRO) defense mechanism will be found significantly related with anger expression among college entrant girls.

8] Projection (PRO) defense mechanism will be found significantly related to adjustment among college entrant girls.

9] Principalization (PRN) defense mechanism will be found significantly related to locus of control among college entrant girls.

10] Principalization (PRN) defense mechanism will be found significantly related to self confidence among college entrant girls.

11] Principalization (PRN) defense mechanism will be found significantly related with anger expression among college entrant girls.

12] Principalization (PRN) defense mechanism will be found significantly related to adjustment among college entrant girls.

13] Turning against self [TAS] defense mechanism will be found significantly related to locus of control among college entrant girls.

14] Turning against self [TAS] defense mechanism will be found significantly related to self confidence among college entrant girls.

15] Turning against self [TAS] defense mechanism will be found significantly related with anger expression among college entrant girls.

16] Turning against self [TAS] defense mechanism will be found significantly related to adjustment among college entrant girls.
17] Reversal (REV) defense mechanism will be found significantly related to locus of control among college entrant girls.

18] Reversal (REV) defense mechanism will be found significantly related to self confidence among college entrant girls.

19] Reversal (REV) defense mechanism will be found significantly related with anger expression among college entrant girls.

20] Reversal (REV) defense mechanism will be found significantly related to adjustment among college entrant girls.

21] There will be a factor structure of covariance of different defense mechanism variables with locus of control, self confidence, anger expression and adjustment among college entrant girls.

OPERATIONAL DEFINITIONS

Operational definitions of the variables are as under:

1) **Defense Mechanisms**: Five clusters of defense mechanisms given below, as assessed by Defense mechanism inventory [DMI] developed by Mrinal & Mrinal [1984] will be operationally taken as a measure of defense mechanisms.

I. **Turning against object (TAO)**-This class of defenses deals with conflict through attacking a real or presumed external frustrating object. Such classical defense as identification with the aggressor and displacement is placed in this category.
II. **Projection (PRO)** - This class included defenses which justify the expression of aggression towards an external object through first attributing to it, without negatives intent or characteristics.

III. **Principalization (PRN)** - This class of defenses deals with conflict through invoking a general principle that “splits off” affects from content and represses the former. Defenses such as intellectualization, isolation, and rationalization fall into this category.

IV. **Turning against self (TAS)** – In this class are those defenses that handle conflict through directing aggressive behavior towards himself. Masochism and auto sadism are examples of defensive solutions in this category.

V. **Reversal (REV)** - This class includes defenses that deal with conflict by responding in a positive or neutral fashion to a frustrating object, which might be expected to evoke a negative reaction. Defenses such as negation, denial, reaction formation, and repression are subsumed under this category.

2) **Locus of Control:** The scores obtained on the 24 items of Levenson’s scale for Locus of control (Indian adaptation in English) by Vohra [1985] as assessed on three scales viz a) \( P \) = belief about control by powerful others. B] \( C \) = Belief about chance control. C] \( I \) = belief about individual control, will be operationally taken as a measure of Locus of control.
3) **Self confidence:** Self confidence as assessed by Agnihotri’s self confidence Inventory (ASCI) developed by Agnihotri [1987] will be operationally taken as a measure of self confidence.

4) **Anger expression:** Anger expression as assessed on three subscales viz a) anger in b) anger out c) anger control by Hindi version of the anger expression scale developed by Sharma, Krishna & Spielberger [2005] will be operationally taken as a measure of anger expression.

**Spielberger (1988)** classified anger expression in three ways:

I. **Anger in or AX / In**, which assess the tendency to suppress angry feeling. (‘I boil inside, but don’t show it’, ‘I keep things in’).

II. **Anger-out or AX / Out**, which assesses the tendency to express anger outwardly towards individuals or objects through physically or verbally aggressive behavior (‘I lose my temper’, ‘I strike at whatever infuriates me’).

III. **Anger control or AX / Con**, which assesses the tendency to successfully diminish the occurrence of angry feelings (‘I keep my cool’; ‘I calm down faster’).

5) **Adjustment:** Adjustment as assessed on four areas viz a) home b) educational c) emotional and d) social adjustment as well as total adjustment, the Adjustment inventory developed by Srivastav and Tiwari [1983] will be operationally taken as a measure of Adjustment.
Research Design

(A Correlational Design)

N = 450

College Entrant Girls from Two Girls Colleges of Jaipur

1. International College for Girls (ICG) (n=225)
2. Maharani College (n=225)

Measurement of

Defense Mechanisms | Locus of Control | Self Confidence | Anger Expression | Adjustment


Order of administration of Measurement devices - Random
CONTROLS

1) To cover the girls from different strata, the college entrant girls from two Girls Colleges i.e, International College of Girls (Private college) and Maharani College (Constituent college of University of Rajasthan) will be taken.

2) In order to control the bias due to order of administration of measurement devices the scales will be administered in random order.

3) To control the effect of extraneous variable “the test administrator”, the investigator herself will carry out all the testing work.

4) Before administering the scales, the participants will be taken into confidence that the results would be kept confidential and will be used for research purpose only.