

Chapter Four

RESULTS

4.0.0

RESULTS

The analysis of the data obtained, as per the design, was done by using the statistical tools namely, Product-Moment of Correlation, Analysis of Variance, Analysis of Covariance and Student's t-distribution.

Product moment of correlation (r) was used first on the Pre-data obtained from 400 adolescents to determine the relationship between.

- a) Overanxious disorder and nonassertive behaviour.
- b) Withdrawn disorder and nonassertive behaviour.

Table 6: Shows the correlation for Pre-data of adolescents between the nonassertive behaviour and the two disorders.

	Nonassertive behaviour
Overanxious disorder	0.40**
Withdrawn disorder	0.42**

** Significant at 0.01 level of significance.

Both the correlation values in the above table were found to be significant at 0.01 level, signifying a positive relationship between the nonassertive behaviour and the two disorders.

Once a relationship was established the final sample of 80 adolescents was chosen keeping in mind the criteria for the selection of the sample. The sample thus obtained was given the therapeutic treatment and the data thus obtained was analyzed at three levels: Pre-Post level, Post-Follow up level and Pre-Followup level.

The data obtained was first analyzed to find the values of ANOVA. The ANOVA was calculated for all the four treatment groups taken together for each disorder separately.

The ANOVA was calculated for finding the difference between the pre-scores (x) of all the four groups and between the post-scores (y) of all the four groups, separately. This was done to see whether the four groups differed at the pre-level where no treatment was given and whether they differed at post-level i.e., after the treatments were given.

Another ANOVA was calculated for post and followup scores and still another for pre and followup scores for the same purposes.

Table 7: Shows the ANOVA table with F-scores for the data on nonassertive overanxious disorder at Pre-Post level.

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	79.9	1771.7	26.6	590.6
SS _w	36	1317.5	2014.3	36.6	56.0
SS _T	39	1397.5	3786	35.8	97.1

$$F_x = 0.7$$

$$F_y = 10.5^{**}$$

Table 8: Shows the ANOVA table with F-scores for the data on nonassertive overanxious disorder at Post-Followup level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	1771.7	3111.4	590.6	1037.1
SS _w	36	2014.3	3826.2	56.0	106.3
SS _T	39	3786	6937.6	97.1	177.8

$$F_x = 10.5^{**}$$

$$F_y = 9.8^{**}$$

Table 9: Shows the ANOVA table with F-scores for the data on nonassertive overanxious disorder at Pre-Followup level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	79.9	3111.4	26.6	1037.1
SS _W	36	1317.5	3826.2	36.6	106.3
SS _T	39	1397.5	6937.6	35.8	177.8

$F_x = 0.7$
 $F_y = 9.8^{**}$

****** Significant at 0.01 level of significance.

The above three tables indicate that before treatment (pre level) there was no significant difference between four groups but after treatment (post level) the four groups showed significant differences which were retained even at the followup level.

Table 10: Shows the ANOVA table with F-scores for the data on nonassertive withdrawn disorder at Pre-Post level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	100.1	2452	33.4	817.3
SS _w	36	453.7	984	12.6	27.3
SS _T	39	553.8	3436	14.2	88.1

$F_x = 2.7$
 $F_y = 29.9^{**}$

Table 11: Shows the ANOVA table with F-scores for the data on nonassertive withdrawn disorder at Post-Followup level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	2452	4136.9	817.3	1378.9
SS _w	36	984	1755	27.3	48.7
SS _T	39	3436	5891.9	88.1	151.1

$F_x = 29.9^{**}$
 $F_y = 28.3^{**}$

Table 12: Shows the ANOVA table with F-scores for the data on nonassertive withdrawn disorder at Pre-Followup level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	100.1	4136.9	33.4	1378.9
SS _w	36	453.7	1755	12.6	48.7
SS _T	39	553.8	5891.9	14.2	151.1

$F_x = 2.7$
 $F_y = 28.3^{**}$

****** Significant at 0.01 level of significance.

The above three tables indicate that before treatment (pre-level) there was no significant difference between four groups but after treatment (post level) four groups showed significant difference which was maintained till the followup level.

Table 13: Shows the ANOVA table with F-scores for the data on nonassertive behaviour at Pre-Post level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	22.2	5186.8	7.4	1728.9
SS _W	76	903	2720	11.8	35.8
SS _T	79	925.2	7906.8	11.7	100.1

$$F_x = 0.6$$

$$F_y = 48.2^{**}$$

Table 14: Shows the ANOVA table with F-scores for the data on nonassertive behaviour at Post-Followup level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	5186.8	9291.8	1728.9	3097.2
SS _W	76	2720	5256.2	35.8	69.2
SS _T	79	7906.8	14548	100.1	184.2

$$F_x = 48.2^{**}$$

$$F_y = 44.7^{**}$$

Table 15: Shows the ANOVA table with F-scores for the data on nonassertive behaviour at Pre-Followup level

SofV	df	SSx	SSy	MSx	MSy
SS _B	3	22.2	9291.8	7.4	3097.2
SS _W	76	903	5256.2	11.8	69.2
SS _T	79	925.2	14548	11.7	184.2

$$F_x = 0.6$$

$$F_y = 44.7^{**}$$

****** Significant at 0.01 level of significance.

The above three tables indicate that again at pre level there was no significant difference whereas at post level significant difference was shown which was maintained even at the followup level.

The data obtained was also analyzed using the Student's t-distribution since, the ANOVA's for post scores were found to be significant. The t-scores were calculated for finding the differences between the pre and post scores, post and followup scores and pre and followup scores for each treatment group separately.

Table 16: Shows the comparision of t-test results of adolescents, parents and teachers for nonassertive overanxious disorder at Pre-Post level

Nonassertive Overanxious Disorder			
	Adolescents' scores	Parents' scores	Teachers' scores
t ₁	7.5**	6.5**	4.8**
t ₂	6.3**	5.4**	2.8**
t ₃	5.1**	5.7**	1.1
t ₄	0.3	0.5	0.2

Table 17: Shows the comparison of t-test results of adolescents, parents and teachers for nonassertive overanxious disorder at Post-Followup level

Nonassertive Overanxious Disorder			
	Adolescents' scores	Parents' scores	Teachers' scores
t ₁	1.2	1.3	1.3
t ₂	1.2	1.3	0.3
t ₃	0.6	0.3	0.9
t ₄	0.3	0.1	1.0

Table 18: Shows the comparison of t-test results of adolescents, parents and teachers for nonassertive overanxious disorder at Pre-Followup level

Nonassertive Overanxious Disorder			
	Adolescents' scores	Parents' scores	Teachers' scores
t ₁	6.6**	6.2**	5.8**
t ₂	6.1**	6.4**	3.5**
t ₃	4.7**	6.8**	1.4
t ₄	0.0	0.7	0.8

** Significant at 0.01 level of significance

The above three tables indicate that the results obtained from adolescents were comparable with their parents and teachers.

t₁ = t-score of group given role-playing treatment

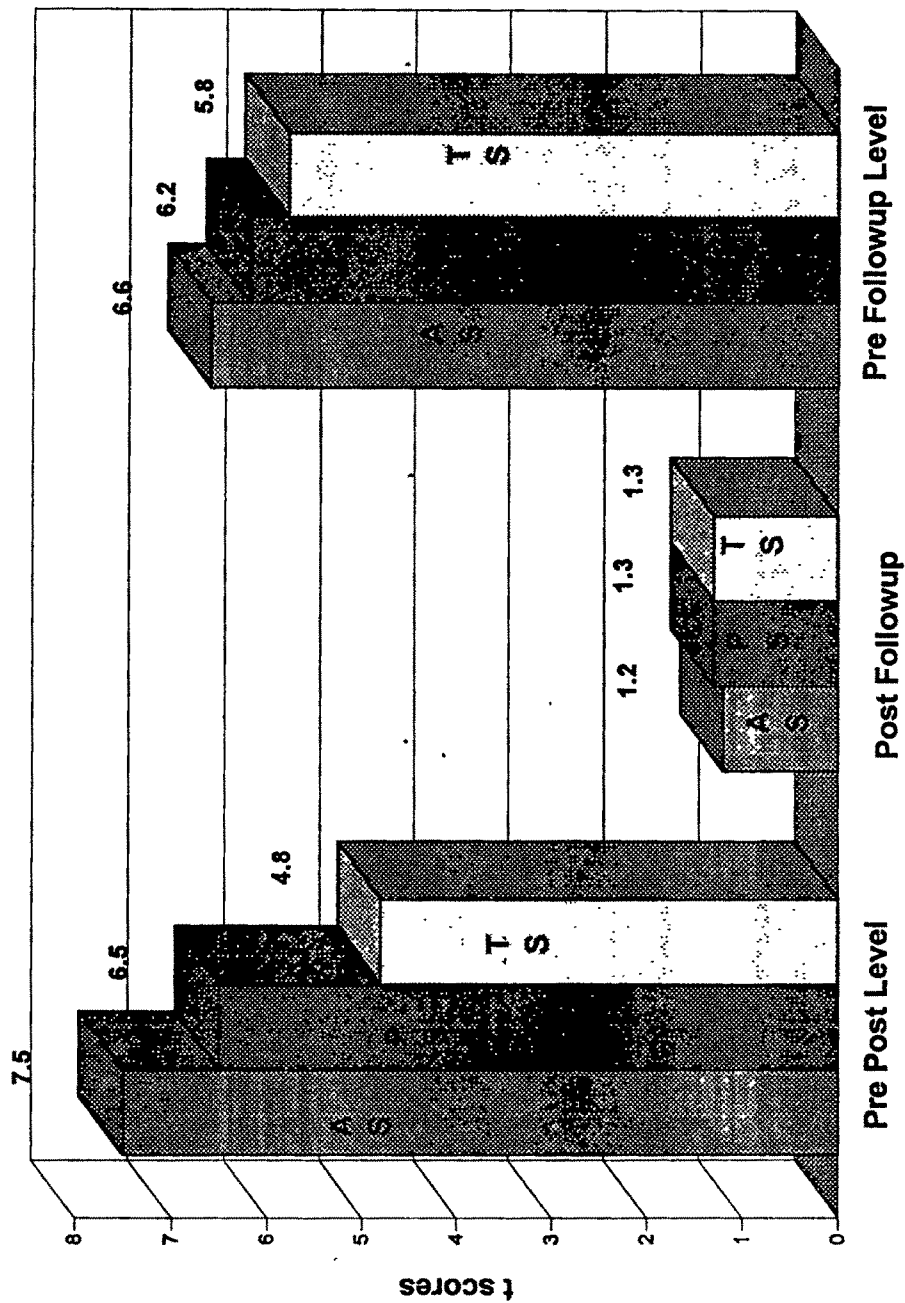
t₂ = t-score of group given covert modeling treatment

t₃ = t-score of group given the two techniques combined

t₄ = t-score of control group

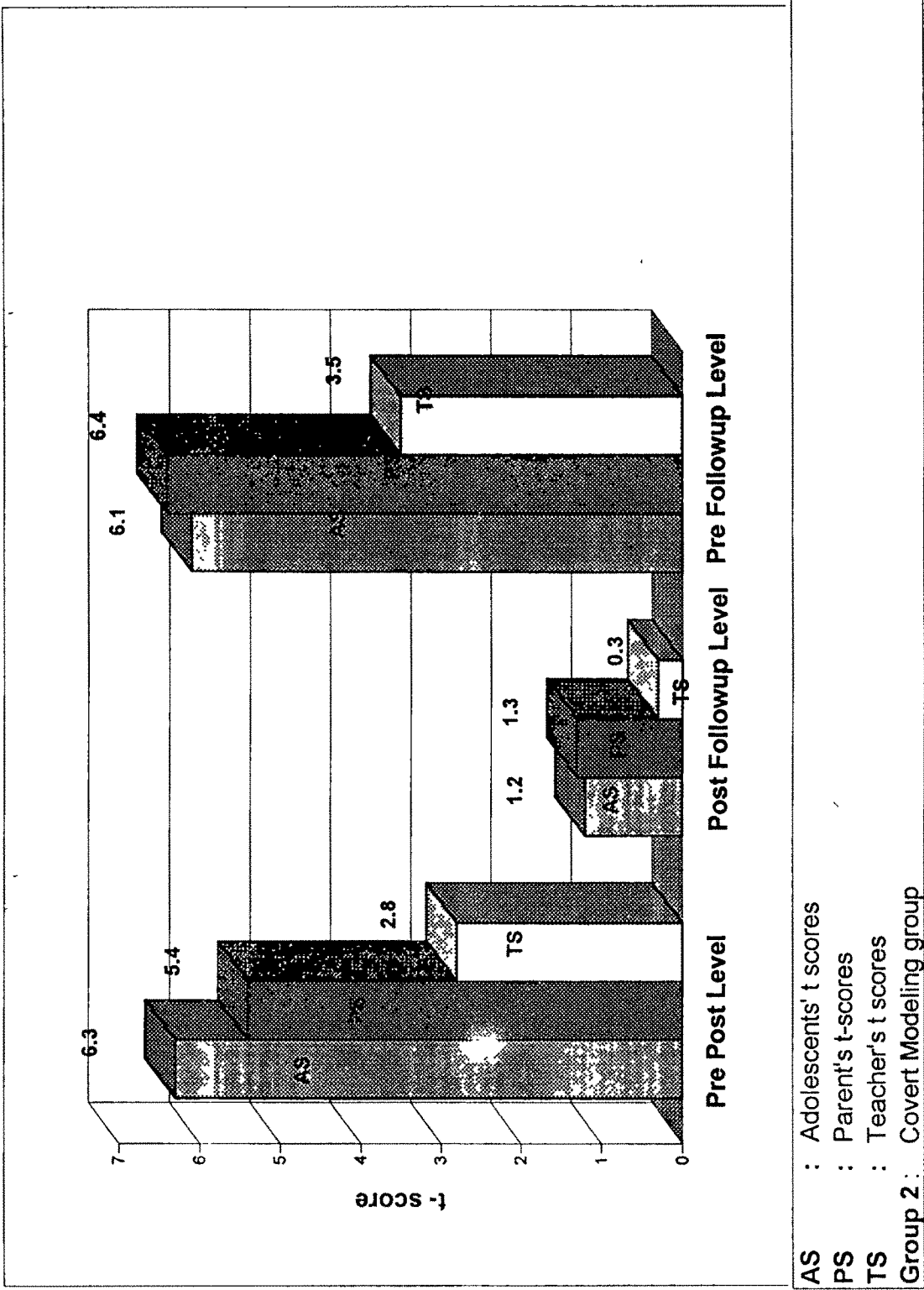
GRAPH I

Shows the comparison of t-test results of adolescents, parents & teachers for non assertive overanxious disorder at all the three levels for Group 1.

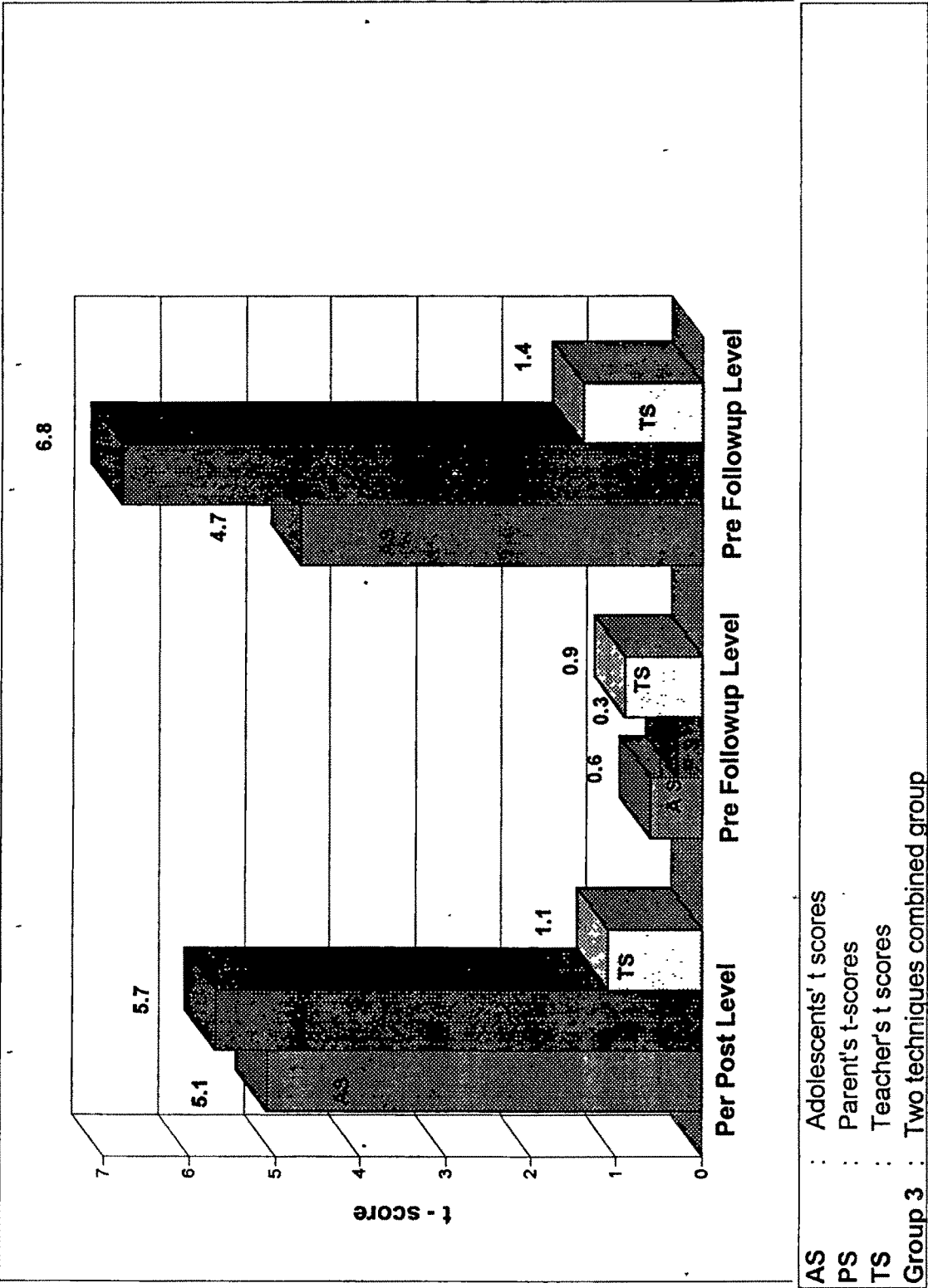


- AS : Adolescents' t scores
- PS : Parent's t-scores
- TS : Teacher's t scores
- Group 1 : Role playing group

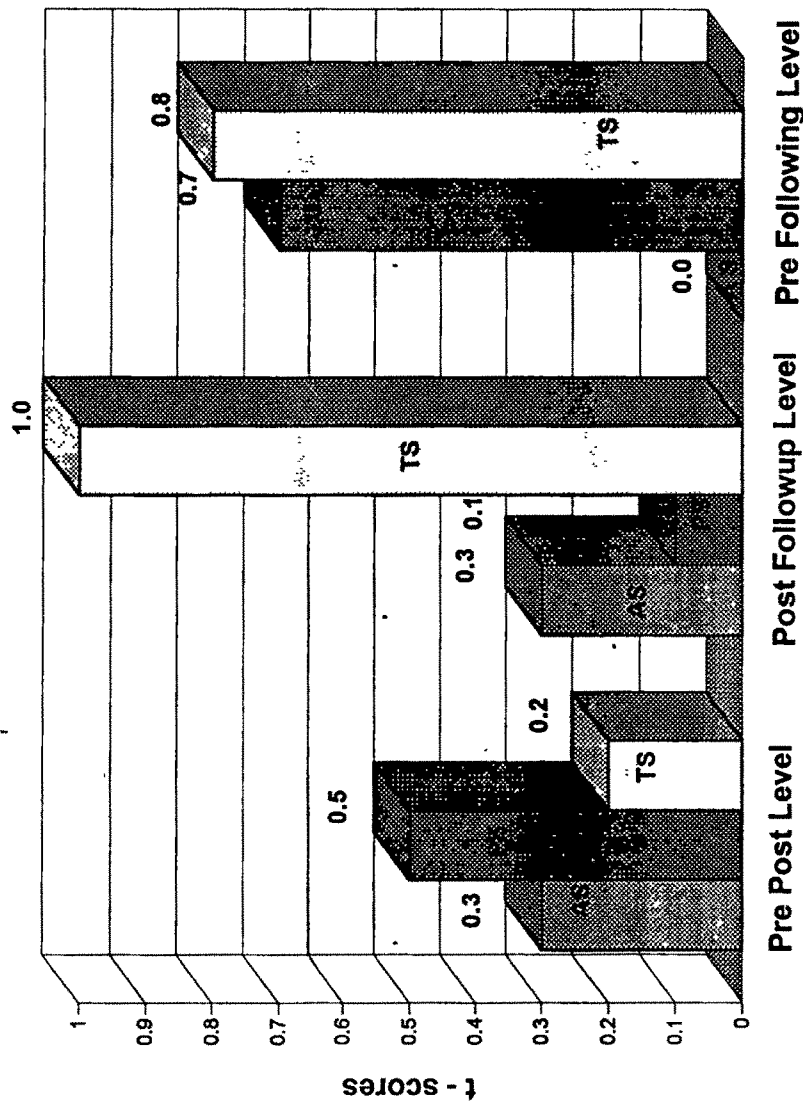
GRAPH II Shows the comparison of t- test results of adolescents, parents & teachers for non assertive overanxious disorder at all the three levels for Group 2.



GRAPH III. Shows the comparison of t- test results of adolescents, parents & teachers for non assertive overanxious disorder at all the three levels for Group 3.



GRAPH IV Shows the comparison of t- test results of adolescents, parents & teachers for non assertive overanxious disorder at all the three levels for Group 4.



AS : Adolescents' t scores
 PS : Parent's t-scores
 TS : Teacher's t scores
 Group 4 : Control group

Table 19: Shows the comparison of t-test results of adolescents, parents and teachers for nonassertive withdrawn disorder at Pre-Post level

Nonassertive Withdrawn Disorder			
	Adolescents' scores	Parents' scores	Teachers' scores
t ₁	14.6**	12.6**	2.2*
t ₂	6.1**	5.3**	3.0**
t ₃	8.9**	7.5**	5.6**
t ₄	0.2	0.2	0.9

Table 20: Shows the comparison of t-test results of adolescents, parents and teachers for nonassertive withdrawn disorder at Post-Followup level

Nonassertive Withdrawn Disorder			
	Adolescents' scores	Parents' scores	Teachers' scores
t ₁	2.3*	0.9	1.3
t ₂	0.5	1.3	0.6
t ₃	1.6	1.7	2.2*
t ₄	0.5	0.02	0.2

Table 21: Shows the comparison of t-test results of adolescents, parents and teachers for nonassertive withdrawn disorder at Pre-Followup level

Nonassertive Withdrawn Disorder			
	Adolescents' scores	Parents' scores	Teachers' scores
t ₁	11.6**	10.7**	6.9**
t ₂	5.4**	7.0**	4.7**
t ₃	8.5**	10.4**	8.5**
t ₄	0.2	0.3	0.6

* Significant at 0.05 level of significance
 ** Significant at 0.01 level of significance

The above three tables indicate that the results obtained from adolescents were comparable with their parents and teachers.

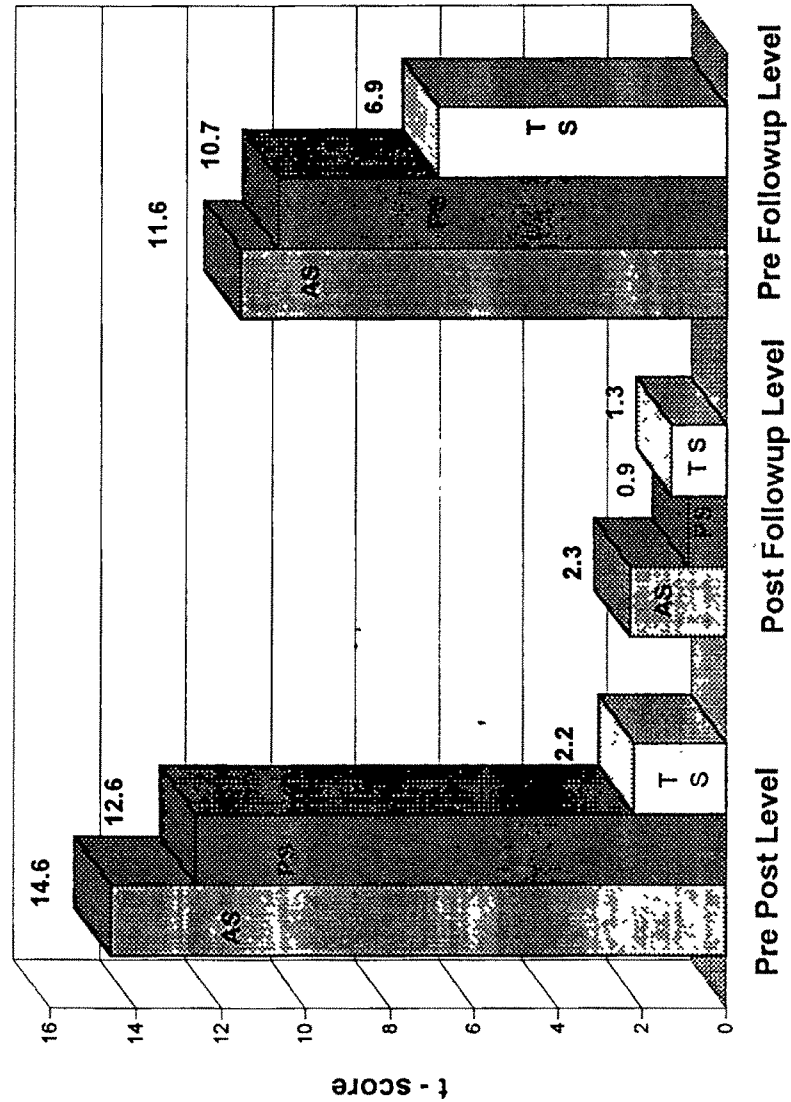
t_1 = t-score of group given role-playing treatment

t_2 = t-score of group given covert modeling treatment

t_3 = t-score of group given the two techniques combined

t_4 = t-score of control group

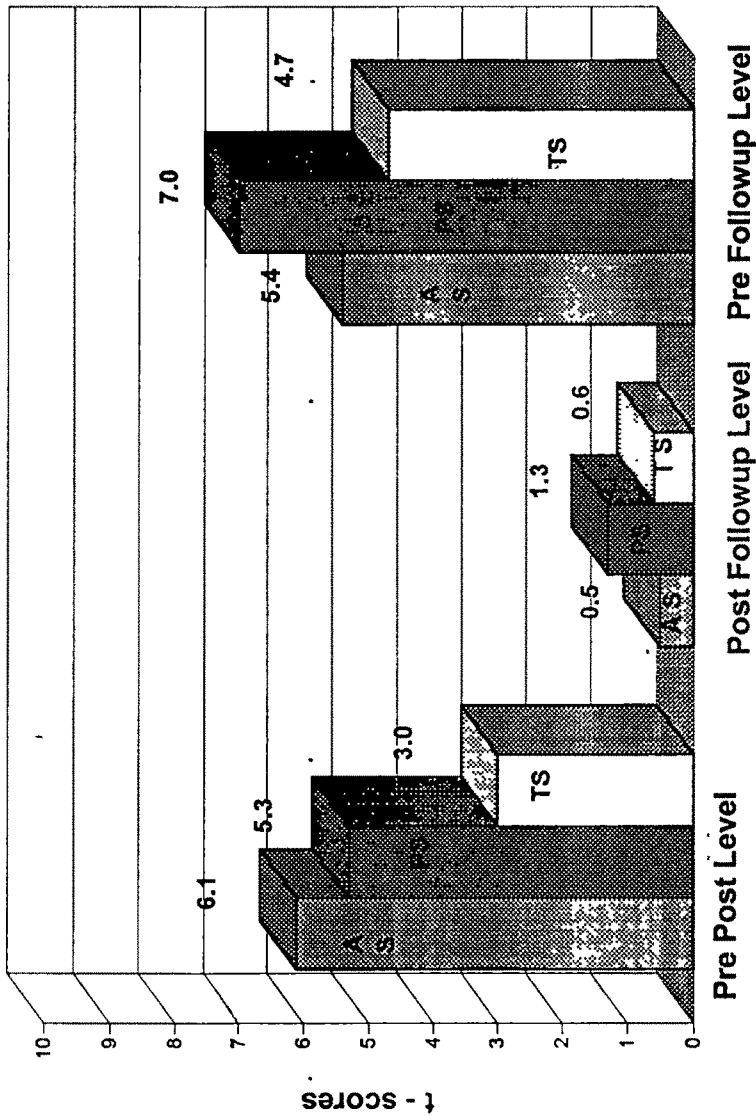
GRAPH V Shows the comparison of t-test results of adolescents, parents & teachers for non assertive withdrawn disorder at all the three levels for Group 1.



AS : Adolescents' t scores
 PS : Parent's t-scores
 TS : Teacher's t scores
 Group 1 : Role playing group

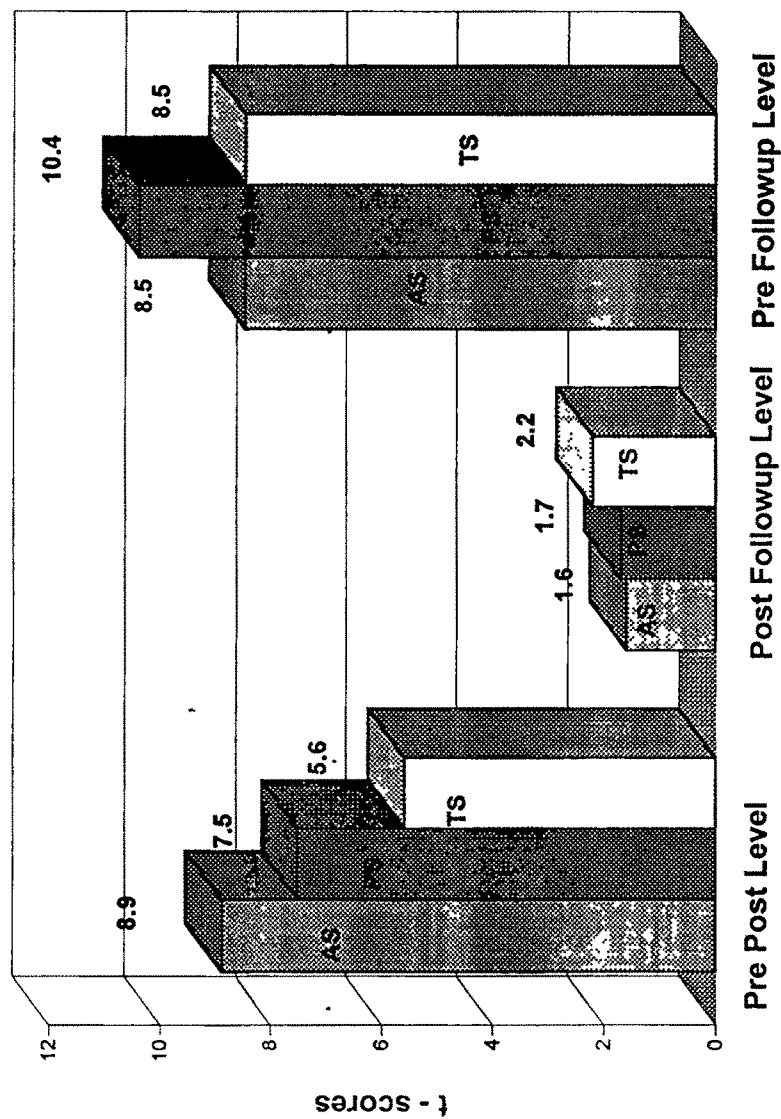
GRAPH VI

Shows the comparison of t- test results of adolescents, parents & teachers for non assertive withdrawn disorder at all the three levels for Group 2.



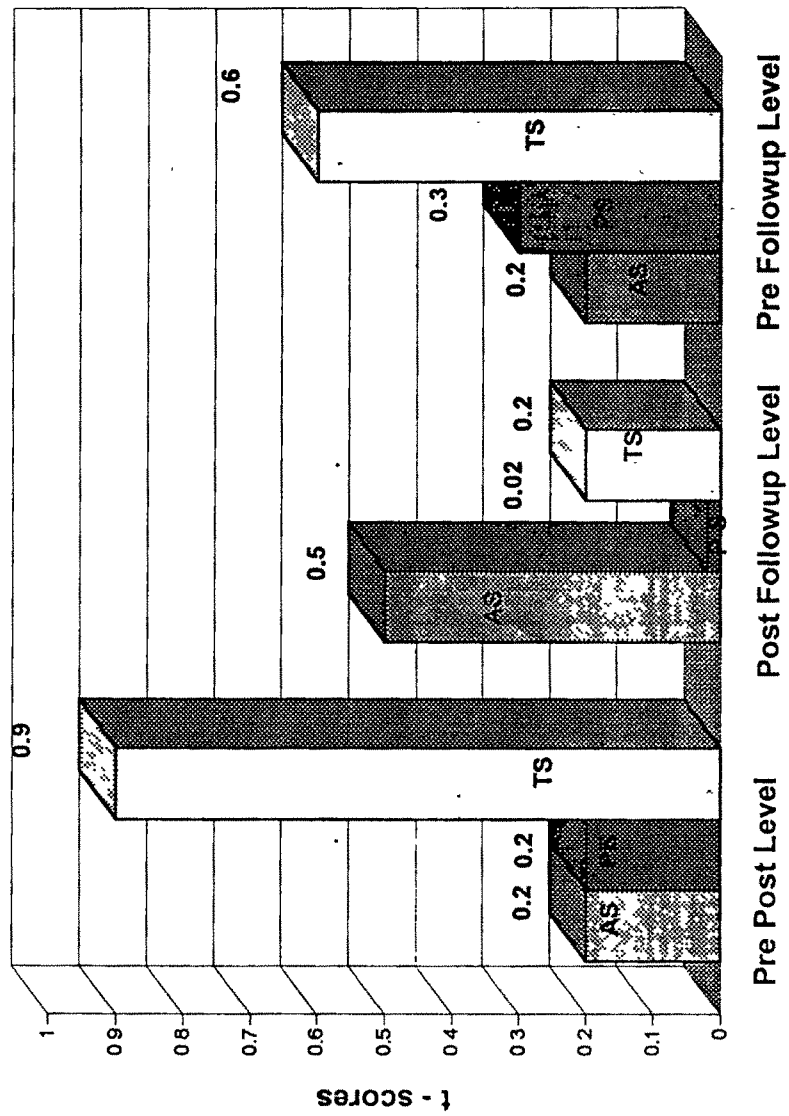
AS : Adolescents' t scores
PS : Parent's t-scores
TS : Teacher's t scores
Group 2 : Covert Modeling Group

GRAPH VII Shows the comparison of t-test results of adolescents, parents & teachers for non assertive withdrawn disorder at all the three levels for Group 3.



AS : Adolescents' t scores
 PS : Parent's t-scores
 TS : Teacher's t scores
 Group 3 : Two techniques combined group

GRAPH VIII Shows the comparison of t- test results of adolescents, parents & teachers for non assertive withdrawn disorder at all the three levels for Group 4.



AS : Adolescents' t scores
 PS : Parent's t-scores
 TS : Teacher's t scores
 Group 4 : Control Group

Table 22: Shows the comparison of t-test results of adolescents and parents for nonassertive behaviour at Pre-Post level

Nonassertive Behaviour		
	Adolescents' scores	Parents' scores
t ₁	16.8**	14.3**
t ₂	10.1**	8.8**
t ₃	10.1**	7.8**
t ₄	0.6	0.4

Table 23: Shows the comparison of t-test results of adolescents and parents for nonassertive behaviour at Post-Followup level

Nonassertive behaviour		
	Adolescents' scores	Parents' scores
t ₁	3.1**	0.9
t ₂	2.7**	1.4
t ₃	1.2	1.5
t ₄	0.4	0.3

Table 24: Shows the comparison of t-test results of adolescents and parents for nonassertive behaviour at Pre-Followup level

Nonassertive Behaviour		
	Adolescents' scores	Parents' scores
t ₁	16.7**	14.7**
t ₂	10.6**	8.8**
t ₃	9.1**	8.0**
t ₄	0.4	0.7

** Significant at 0.01 level of significance

The above three tables show that the t-results of adolescents were comparable with the t-results of their parents.

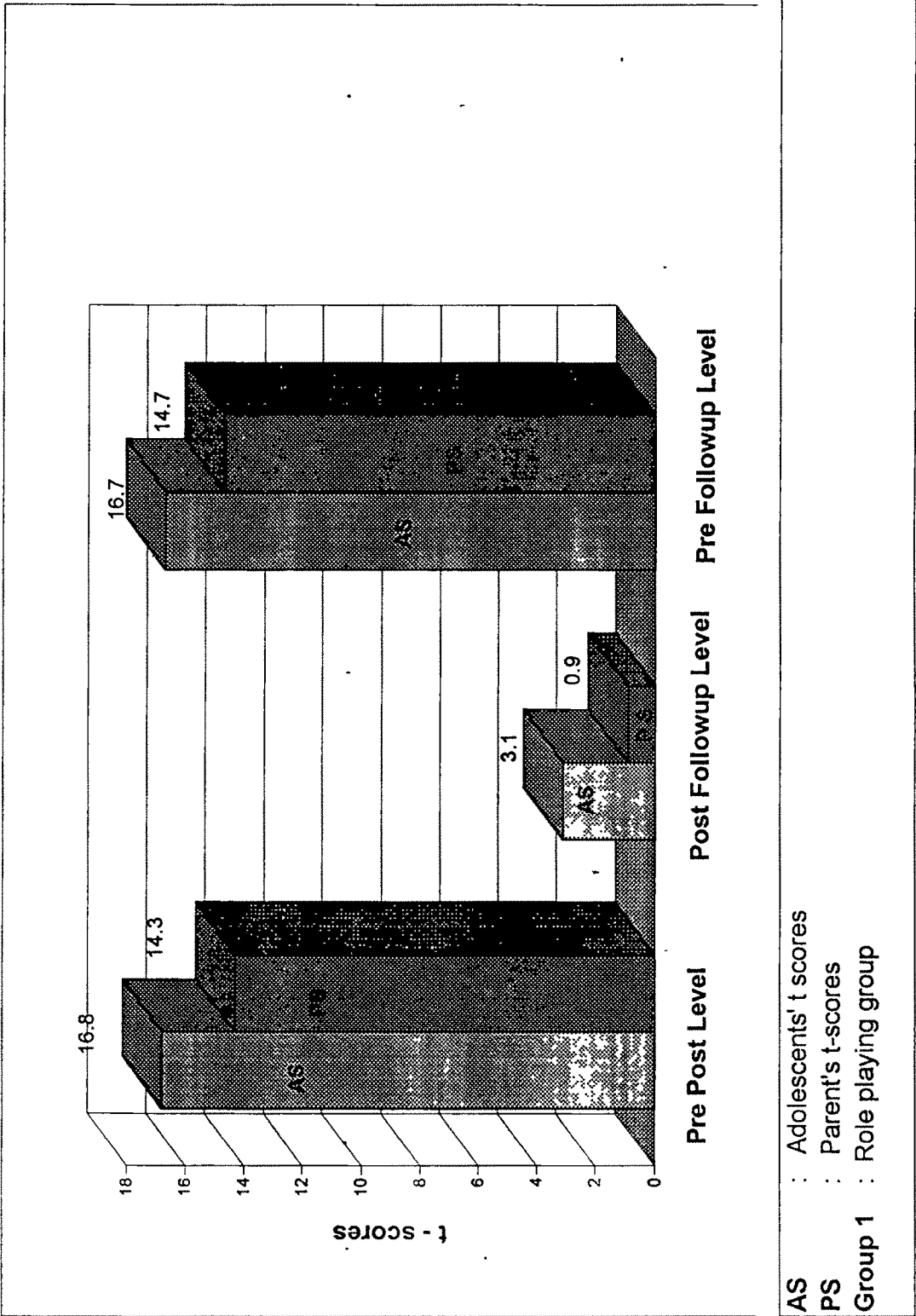
t_1 = t-score of group given role-playing treatment

t_2 = t-score of group given covert modeling treatment

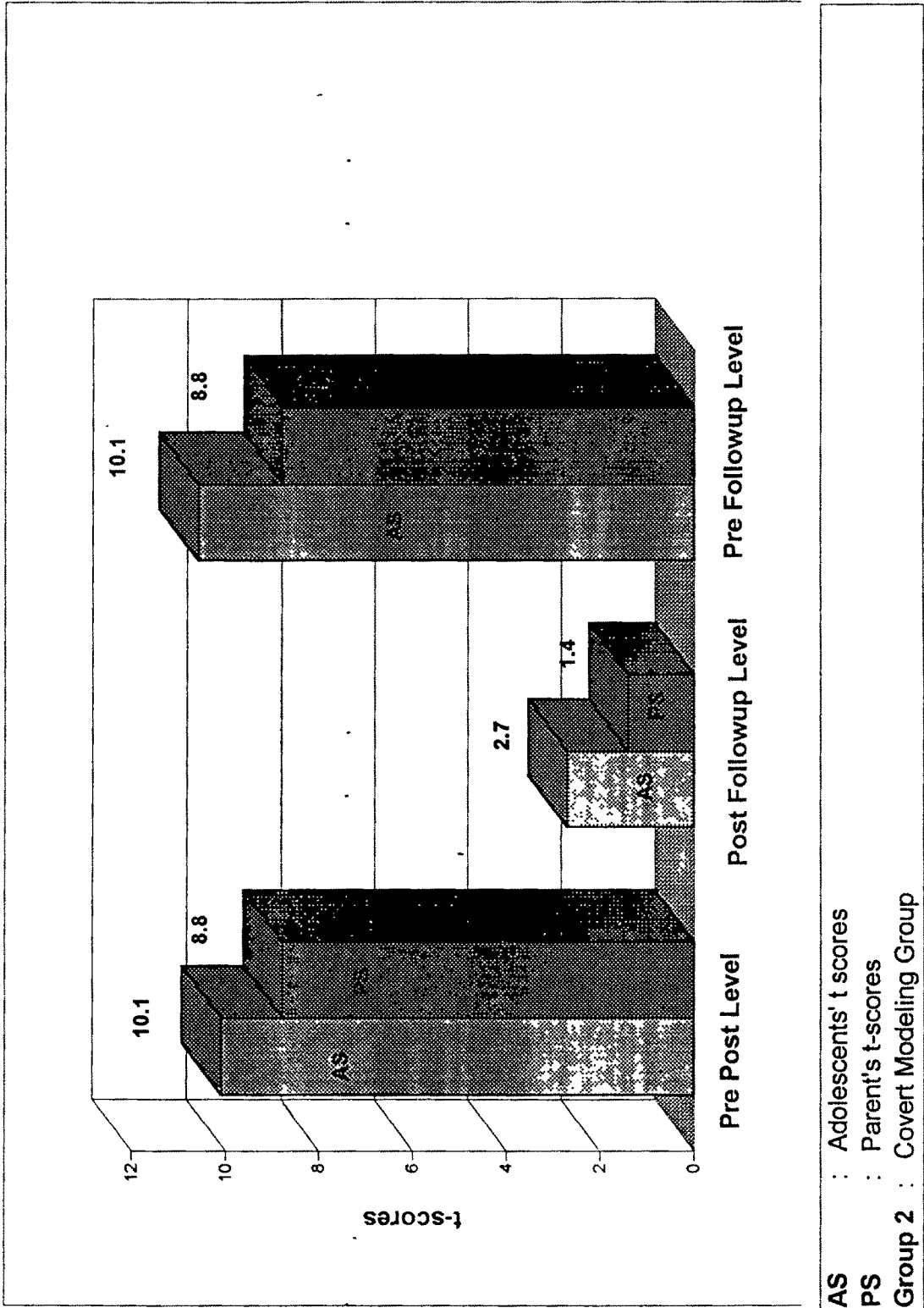
t_3 = t-score of group given the two techniques combined

t_4 = t-score of control group

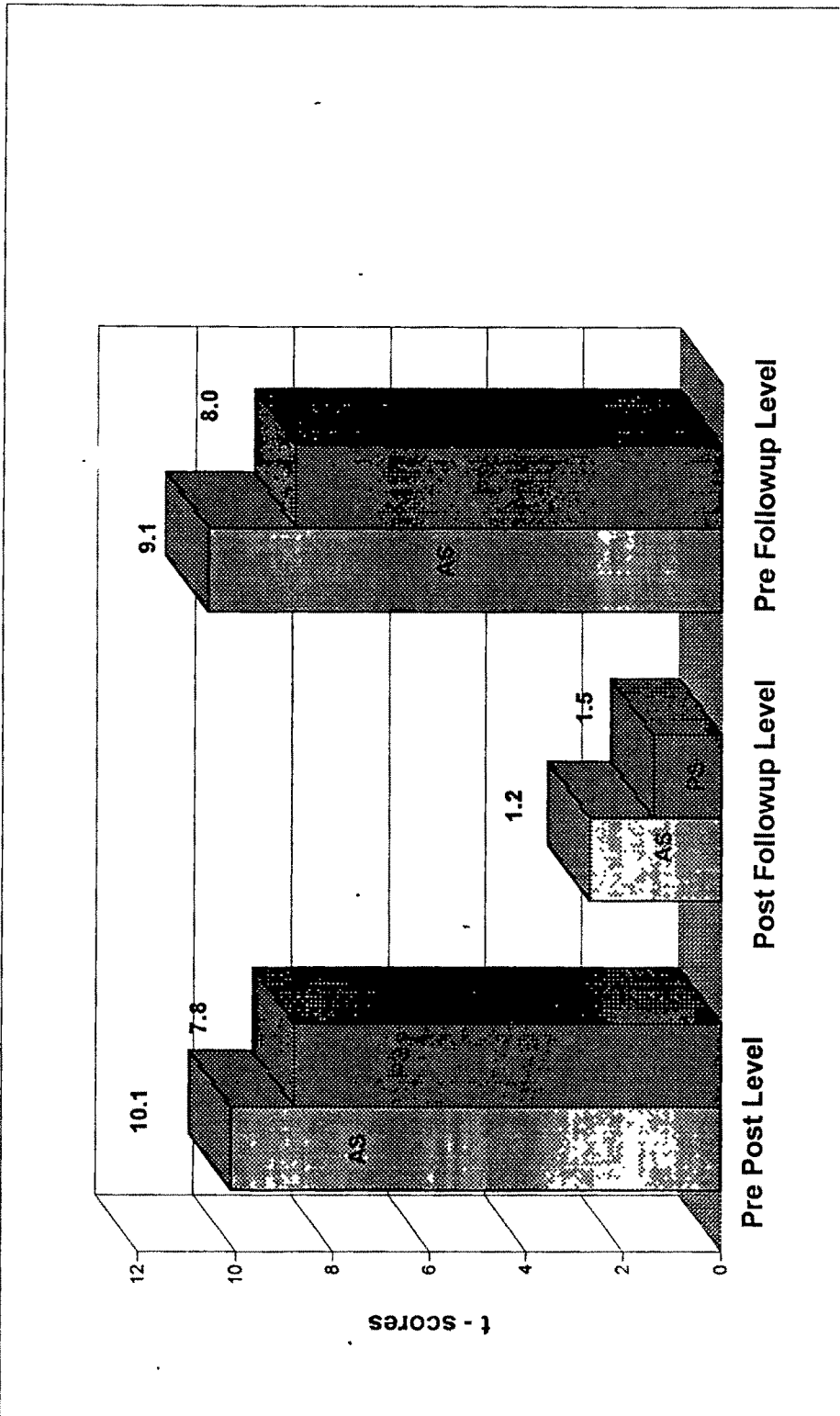
GRAPH IX Shows the comparison of t- test results of adolescents & parents for non assertive behaviour at all the three levels for Group 1.



GRAPH X Shows the comparison of t-test results of adolescents & parents for non assertive behaviour at all the three levels for Group 2.

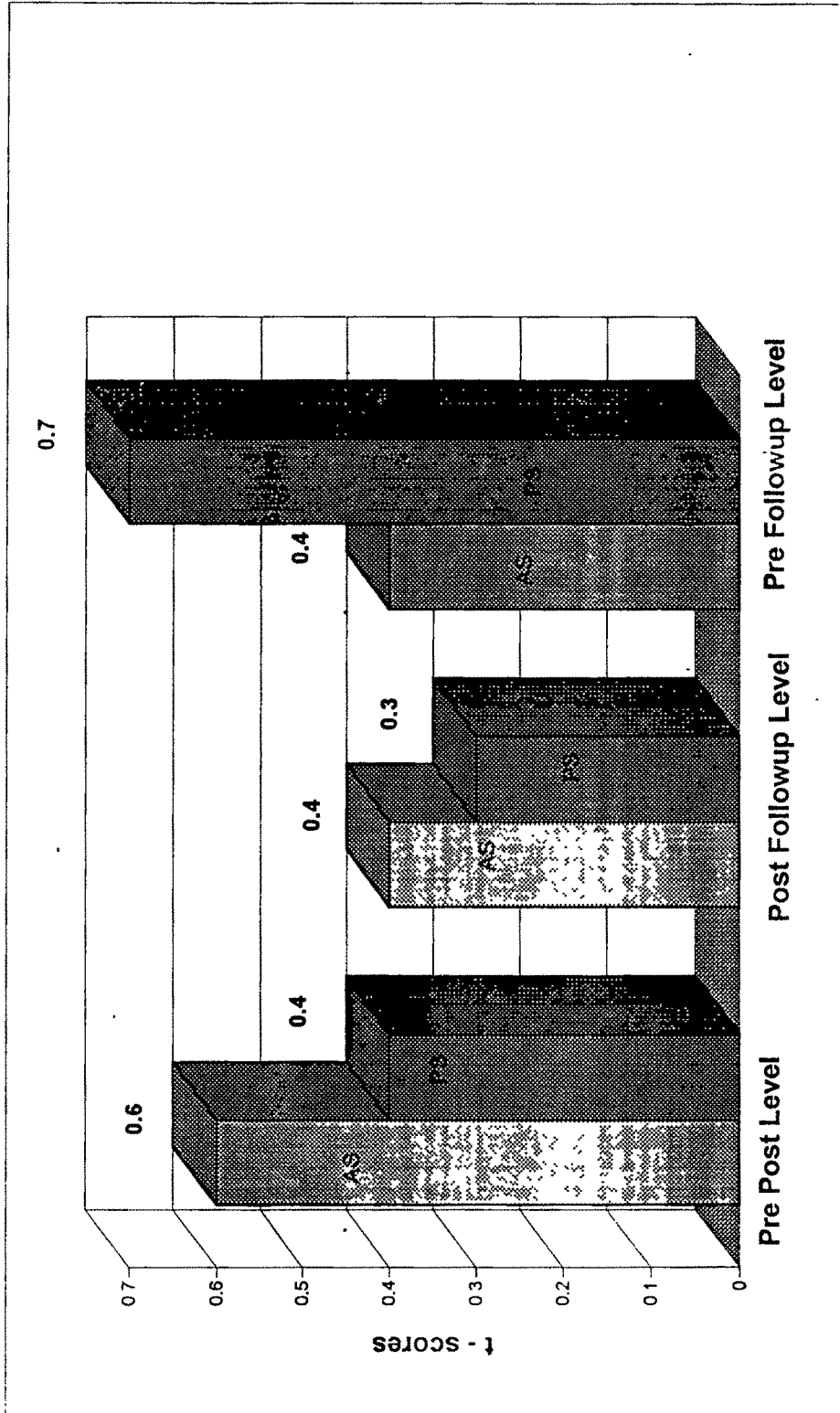


GRAPH XI Shows the comparison of t- test results of adolescents & parents for non assertive behaviour at all the three levels for Group 3.



AS : Adolescents' t scores
PS : Parent's t-scores
Group 3 : Two techniques combined group

GRAPH XII Shows the comparison of t- test results of adolescents & parents for non assertive behaviour at all the three levels for Group 4.



AS : Adolescents' t-scores
PS : Parent's t-scores
Group 4 : Control Group

Since, the ANOVA'S for post scores were found to be significant the investigator decided to calculate the ANCOVA between the pre and post scores.

ANCOVA was also calculated to find the difference between pre and post scores for all the four treatment groups taken together to find the impact of the treatment techniques used directly. Similarly, it was done for post-followup and pre-followup levels as well.

Table 25: **Shows the ANCOVA table with F-score for the data on nonassertive overanxious disorder at Pre-Post level**

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	79.9	1771.7	-272.8	2250.8	750.2
SS _w	35	1317.5	2014.3	1202.7	916.4	26.2
SS _T	38	1397.4	3786	929.9	3167.2	83.3

$F = 28.6^{**}$

Table 26: **Shows the ANCOVA table with F-score for the data on nonassertive overanxious disorder at Post-Followup level**

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	1771.7	3111.4	2339.1	90.4	30.1
SS _w	35	2014.3	3826.2	2121.3	1592.3	45.5
SS _T	38	3786	6937.6	4460.4	1682.7	44.2

$F = 0.7$

Table 27: Shows the ANCOVA table with F-score for the data on nonassertive overanxious disorder at Pre-Followup level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	79.9	3111.4	-386.5	3566.3	1188.7
SS _w	35	1317.5	3826.2	945.5	3147.7	89.9
SS _T	38	1397.5	6937.6	559.0	6714	176.6

$F = 13.2^{**}$

****** Significant at 0.01 level of significance

The above tables indicate a significantly high impact of the intervention techniques on nonassertive overanxious disorder.

Table 28: Shows the ANCOVA table with F-score for the data on nonassertive withdrawn disorder at Pre-Post level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	100.1	2452	-77.4	2694.9	898.3
SS _w	35	453.7	984	520.9	385.9	11.0
SS _T	38	553.8	3436	443.5	3080.8	81.1

F = 81.7**

Table 29: Shows the ANCOVA table with F-score for the data on nonassertive withdrawn disorder at Post-Followup level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	2452	4136.9	3159.4	207.2	69.0
SS _w	35	984	1755	826.6	1060.7	30.3
SS _T	38	3436	5891.9	3986	1267.9	33.3

F = 2.3

Table 30: Shows the ANCOVA table with F-score for the data on nonassertive withdrawn disorder at Pre-Followup level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	100.1	4136.9	-166.2	4439.8	1479.9
SS _w	35	453.7	1755	452.1	1304.5	37.3
SS _T	38	553.8	5891.9	285.9	5744.3	151.2

F = 39.7**

** Significant at 0.01 level of significance

The above tables indicate a significantly high impact of the intervention techniques on nonassertive withdrawn disorder.

Table 31: Shows the ANCOVA table with F-score for the data on nonassertive behaviour at Pre-Post level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	22.2	5186.8	-229.9	5590.5	1863.5
SS _w	75	903	2720	885.3	1852.1	24.7
SS _T	78	925.2	7906.8	655.4	7442.6	95.4

F = 75.4**

Table 32: Shows the ANCOVA table with F-score for the data on nonassertive behaviour at Post-Followup level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	5186.8	9291.8	6865.8	591.9	197.03
SS _w	75	2720	5256.2	2268.8	3403.8	45.4
SS _T	78	7906.8	14548	9134.6	3994.9	51.2

F = 4.3

Table 33: Shows the ANCOVA table with F-score for the data on nonassertive behaviour at Pre-Followup level

SofV	df	SSx	SSy	SSxy	SSyx	MSyx
SS _B	3	22.2	9291.8	-353.1	9769.1	3256.4
SS _w	75	903	5256.2	780.7	4581.3	61.1
SS _T	78	925.2	14548	427.6	14350.4	183.4

F = 53.3**

** Significant at the 0.01 level of significance.

The above tables indicate a significantly high impact of the intervention techniques on the nonassertive behaviour.

Further analysis of the data was done to find the differential impact of the intervention techniques used on the two disorders with the nonassertive behaviour at all the three levels.

Table 34: **Shows the mean values of the four groups of nonassertive overanxious disorder at the Pre-Post level**

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	70.6	49.6	47.6
2	10	68.3	51.9	51.9
3	10	67.9	49.9	50.4
4	10	66.7	65.7	67.2
Grand Mean		68.4	54.3	54.3

Mean X = Mean of Pre-scores
Mean Y = Mean of Post-scores

Table 35: **Shows the mean values of the four groups of nonassertive overanxious disorder at the Post-Followup level**

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	49.6	44.5	49.2
2	10	51.9	48.2	50.6
3	10	49.9	47.0	51.4
4	10	65.7	66.7	55.3
Grand Mean		54.3	51.6	51.6

Mean X = Mean of Post-scores
Mean Y = Mean of Followup-scores

Table 36: Shows the mean values of the four groups of nonassertive overanxious disorder at the Pre-Followup level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	70.6	44.5	42.8
2	10	68.3	48.2	48.2
3	10	67.9	47.0	47.3
4	10	66.7	66.7	66.8
Grand Mean		68.3	51.6	51.2

Mean X = Mean of Pre-scores
Mean Y = Mean of Followup-scores

The above tables show that group 1 has the lowest mean score indicating that the intervention technique applied on group 1 was most effective in reducing nonassertive overanxious disorder. Groups 2 and 3 have similar results indicating similar impact of the intervention techniques applied.

Group 1 = Group given role playing treatment

Group 2 = Group given covert modeling treatment

Group 3 = Group given two techniques combined treatment

Group 4 = Control group

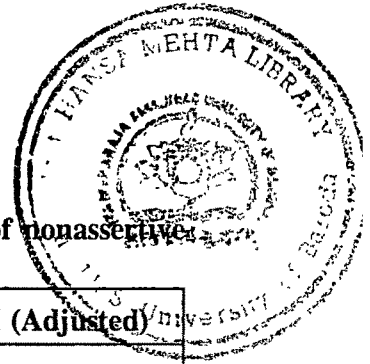


Table 37: Shows the mean values of the four groups of nonassertive withdrawn disorder at the Pre-Post level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	60.0	38.1	35.2
2	10	55.9	40.7	42.4
3	10	56.4	41.3	42.4
4	10	57.4	59.9	59.9
Grand Mean		57.4	45.0	45.4

Mean X = Mean of Pre-scores

Mean Y = Mean of Post-scores

Table 38: Shows the mean values of the four groups of nonassertive withdrawn disorder at the Post-Followup level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	38.1	32.2	37.3
2	10	40.7	39.1	42.1
3	10	41.3	37.5	40.1
4	10	57.9	59.0	48.2
Grand Mean		44.5	41.9	41.9

Mean X = Mean of Post-scores

Mean Y = Mean of Followup-scores

Table 39: Shows the mean values of the four groups of nonassertive withdrawn disorder at the Pre-Followup level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	60.0	32.2	29.9
2	10	55.9	39.1	40.7
3	10	56.4	37.5	38.4
4	10	57.4	59.0	59.0
Grand Mean		57.4	41.9	42.0

Mean X = Mean of Pre-scores

Mean Y = Mean of Followup-scores

The above tables show that group 1 has the lowest mean score indicating that the intervention technique applied on group 1 was most effective in reducing nonassertive withdrawn disorder. Groups 2 and 3 have similar results indicating similar impact of the intervention techniques applied.

Group 1 = Group given role playing treatment

Group 2 = Group given covert modeling treatment

Group 3 = Group given two techniques combined treatment

Group 4 = Control group

Table 40: Shows the mean values of the four groups of nonassertive behaviour at the Pre-Post level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	67.4	43.7	43.5
2	10	68.0	50.8	50.0
3	10	67.1	48.9	48.8
4	10	66.5	65.4	66.1
Grand Mean		67.2	52.2	52.1

Mean X = Mean of Pre-scores
Mean Y = Mean of Post-scores

Table 41: Shows the mean values of the four groups of nonassertive behaviour at the Post-Followup level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	43.7	37.2	44.0
2	10	50.8	43.5	45.7
3	10	48.9	45.3	47.9
4	10	65.4	65.9	55.3
Grand Mean		52.2	47.9	48.2

Mean X = Mean of Post-scores
Mean Y = Mean of Followup-scores

Table 42: Shows the mean values of the four groups of nonassertive behaviour at the Pre-Followup level

Group	N	Mean X	Mean Y	Mean Y.X (Adjusted)
1	10	67.4	37.2	37.0
2	10	68.0	43.5	42.7
3	10	67.1	45.3	45.2
4	10	66.5	65.9	66.5
Grand Mean		67.2	47.9	47.9

Mean X = Mean of Pre-scores
Mean Y = Mean of Followup-scores

The above tables again show that group 1 has the lowest mean score indicating that the intervention technique applied on group 1 was most effective. Groups 2 & 3 show similar results indicating similar impact of the intervention techniques applied.

Group 1 = Group given role playing treatment

Group 2 = Group given covert modeling treatment

Group 3 = Group given the two techniques combined treatment

Group 4 = Control group

The data was further analyzed to compare the experimental groups with the control group at all the three levels.

Table 43: Shows the mean differences of the three experimental groups with the control group of nonassertive overanxious disorder at the Pre-Post level

Groups	Mean Difference	Significance
1-4	19.6	**
2-4	15.3	**
3-4	16.8	**

Table 44: Shows the mean differences of the three experimental groups with the control group of nonassertive overanxious disorder at the Post-Followup level

Groups	Mean Differences	Significance
1-4	6.1	*
2-4	4.7	
3-4	3.9	

Table 45: Shows the mean differences of the three experimental groups with the control group of nonassertive overanxious disorder at the Pre-Followup level

Groups	Mean Differences	Significance
1-4	24.0	**
2-4	18.6	**
3-4	19.5	**

* Significant at 0.05 level of significance

** Significant at 0.01 level of significance

The above tables indicate that the three experimental groups were significantly different from the control group. Maximum difference was between groups 1 & 4 indicating maximum reduction in the disorder of group 1 adolescents.

Group 1 = Group given role playing treatment

Group 2 = Group given covert modeling treatment

Group 3 = Group given the two techniques combined treatment

Group 4 = Control group

Table 46: Shows the mean differences of the three experimental groups with the control group of nonassertive withdrawn disorder at the Pre-Post level

Groups	Mean Differences	Significance
1-4	24.7	**
2-4	17.5	**
3-4	17.5	**

Table 47: Shows the mean differences of the three experimental groups with the control group of nonassertive withdrawn disorder at the Post-Followup level

Groups	Mean Differences	Significance
1-4	10.9	**
2-4	6.1	*
3-4	8.1	**

Table 48: Shows the mean differences of the three experimental groups with the control group of nonassertive withdrawn disorder at the Pre-Followup level

Groups	Mean Differences	Significance
1-4	29.1	**
2-4	18.3	**
3-4	20.6	**

* Significant at 0.05 level of significance

** Significant at 0.01 level of significance

The above tables indicate that the three experimental groups were significantly different from the control group. Maximum difference was between group 1 & 4 indicating maximum reduction in the disorder of group 1 adolescents.

Group 1 = Group given role playing treatment

Group 2 = Group given covert modeling treatment

Group 3 = Group given the two techniques combined treatment

Group 4 = Control group

Table 49: Shows the mean differences of the three experimental groups with the control group of nonassertive behaviour at the Pre-Post level

Groups	Mean Differences	Significance
1-4	22.6	**
2-4	16.1	**
3-4	17.3	**

Table 50: Shows the mean differences of the three experimental groups with the control group of nonassertive behaviour at the Post-Followup level

Groups	Mean Differences	Significance
1-4	11.3	**
2-4	9.6	**
3-4	7.4	**

Table 51: Shows the mean differences of the three experimental groups with the control group of nonassertive behaviour at the Pre-Followup level

Groups	Mean Differences	Significance
1-4	29.5	**
2-4	23.8	**
3-4	21.3	**

** Significant at 0.01 level of significance.

The above tables indicate that again all the three experimental groups were significantly different from the control group. The maximum difference was between the groups 1 & 4 indicating maximum reduction of the disorder in the adolescents belonging to group 1.

Group 1 = Group given role playing treatment

Group 2 = Group given covert modeling treatment

Group 3 = Group given the two techniques combined treatment

Group 4 = Control group

Student's t-score was also calculated between girls' and boys' scores at all the three levels separately.

Table 52: Shows the t-test results between girls and boys for Pre, Post and Followup-scores of nonassertive overanxiuos disorder

		t-scores
Nonassertive Overanxious Disorder	Pre level	0.8
	Post level	0.4
	Followup level	1.1

Table 53: Shows the t-test results between girls and boys for Pre, Post and Followup-scores of nonassertive withdrawn disorder

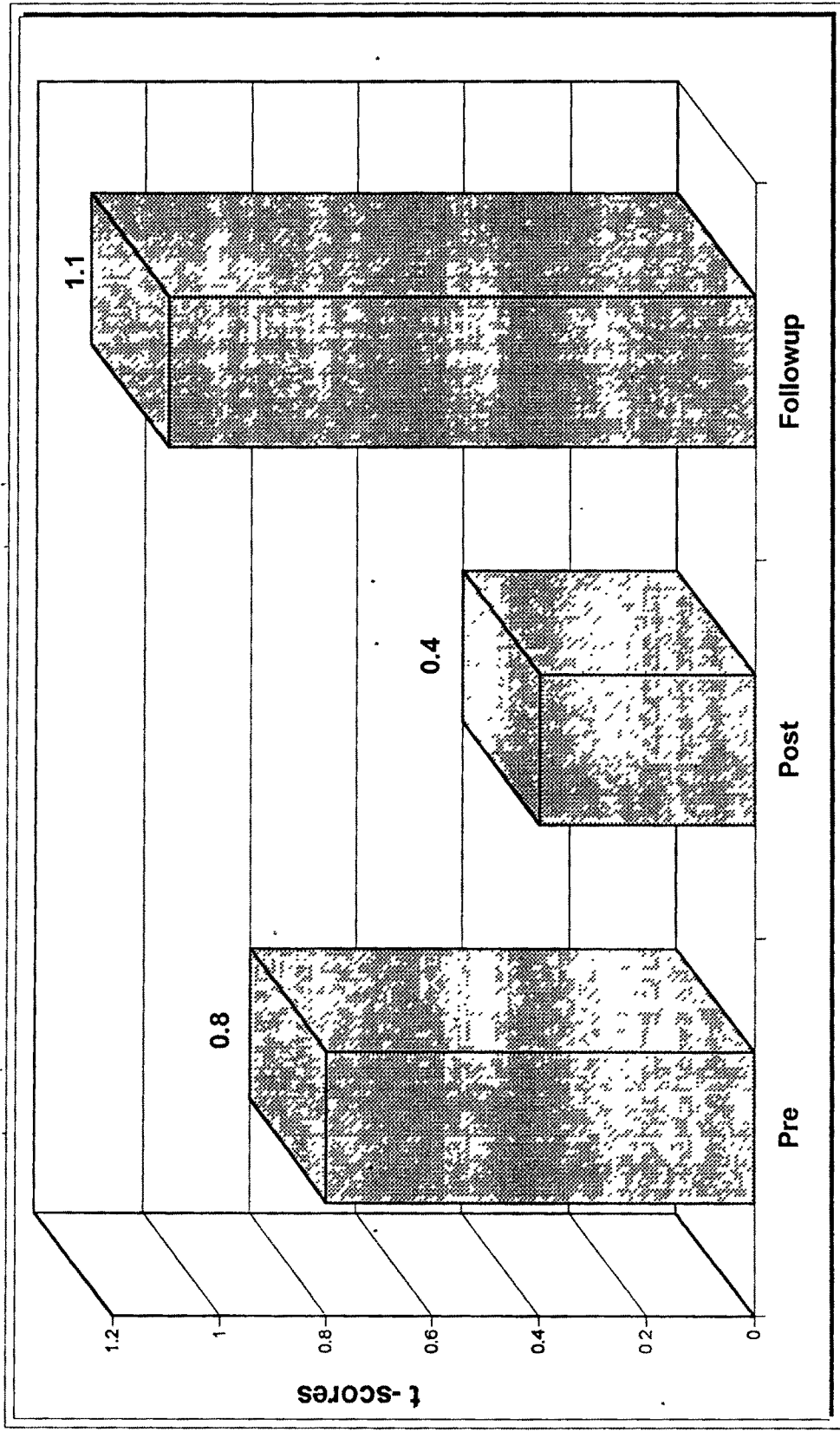
		t-scores
Nonassertive Withdrawn Disorder	Pre level	1.5
	Post level	0.7
	Followup level	1.0

Table 54: Shows the t-test results between girls and boys for Pre, Post and Followup-scores of nonassertive behaviour

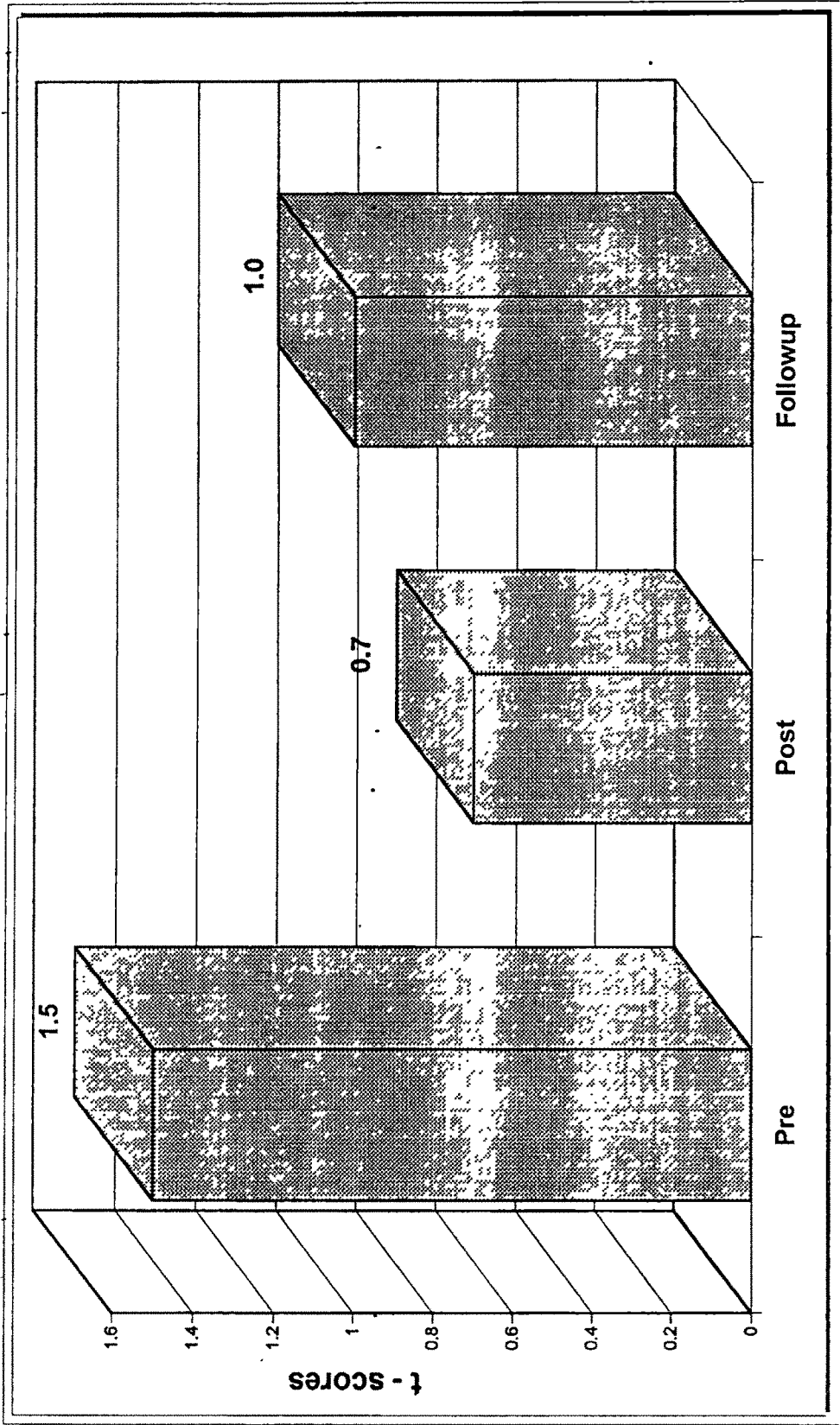
		t-scores
Nonassertive Behaviour	Pre level	0.05
	Post level	0.5
	Followup level	0.5

The three tables above indicate that there were no significant differences between the girls' and the boys' scores and both gave similar kind of responses.

GRAPH XIII Shows the comparison of t - scores at Pre, Post and Followup level between girls and boys for non assertive overanxious disorder



GRAPH XIV Shows the comparison of t - scores at Pre, Post and Followup level between girls and boys for non assertive withdrawn disorder



GRAPH XV Shows the comparison of t - scores at Pre, Post and Followup level between girls and boys for nonassertive behaviour.

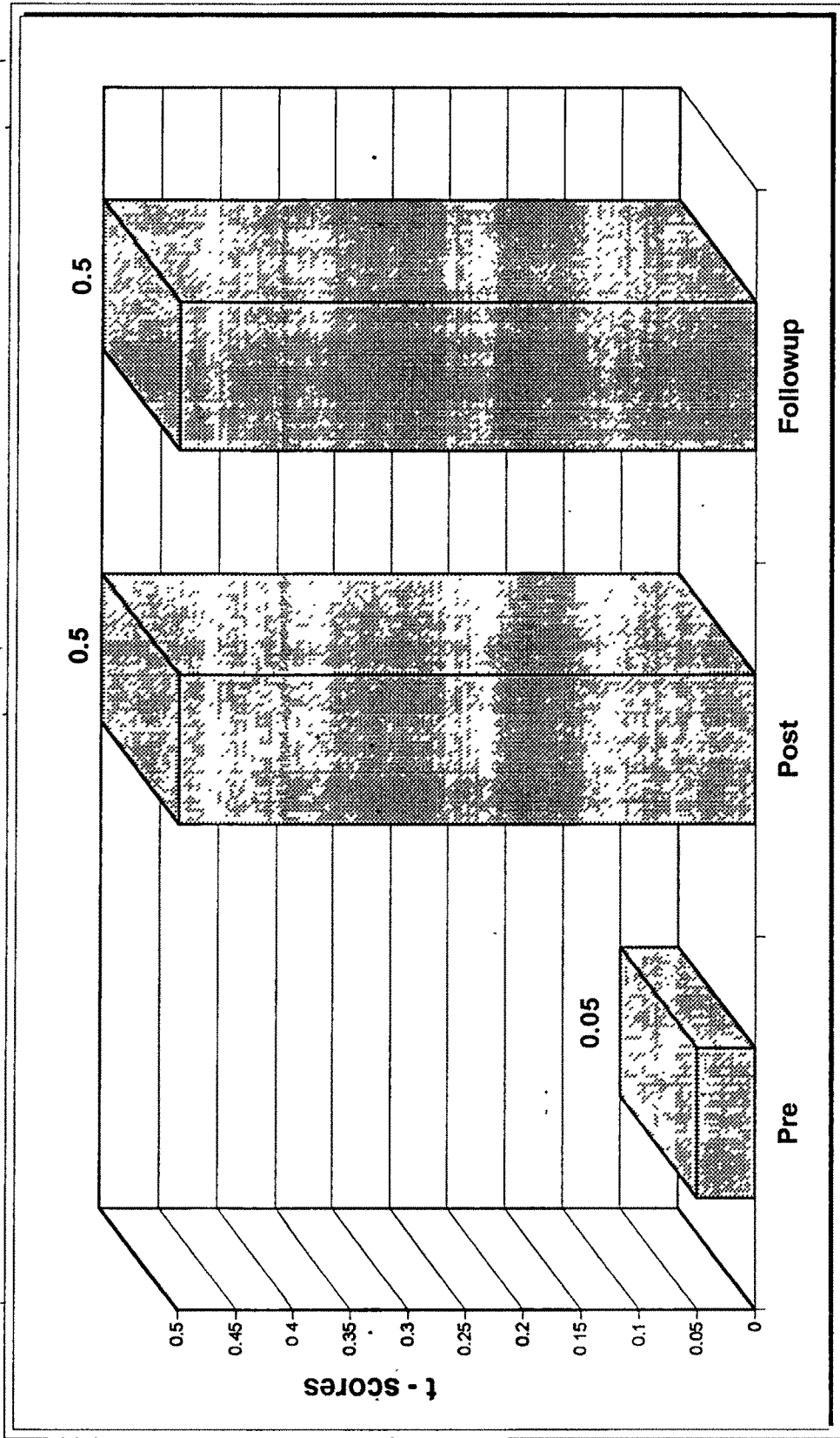


Table 55: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Pre-scores for nonassertive overanxious disorder, treatment wise (T)

Nonassertive Overanxious disorder			
	To	M	SD
T ₁	706	70.6	4.6
T ₂	683	68.3	5.8
T ₃	679	67.9	5.5
T ₄	667	66.7	6.8

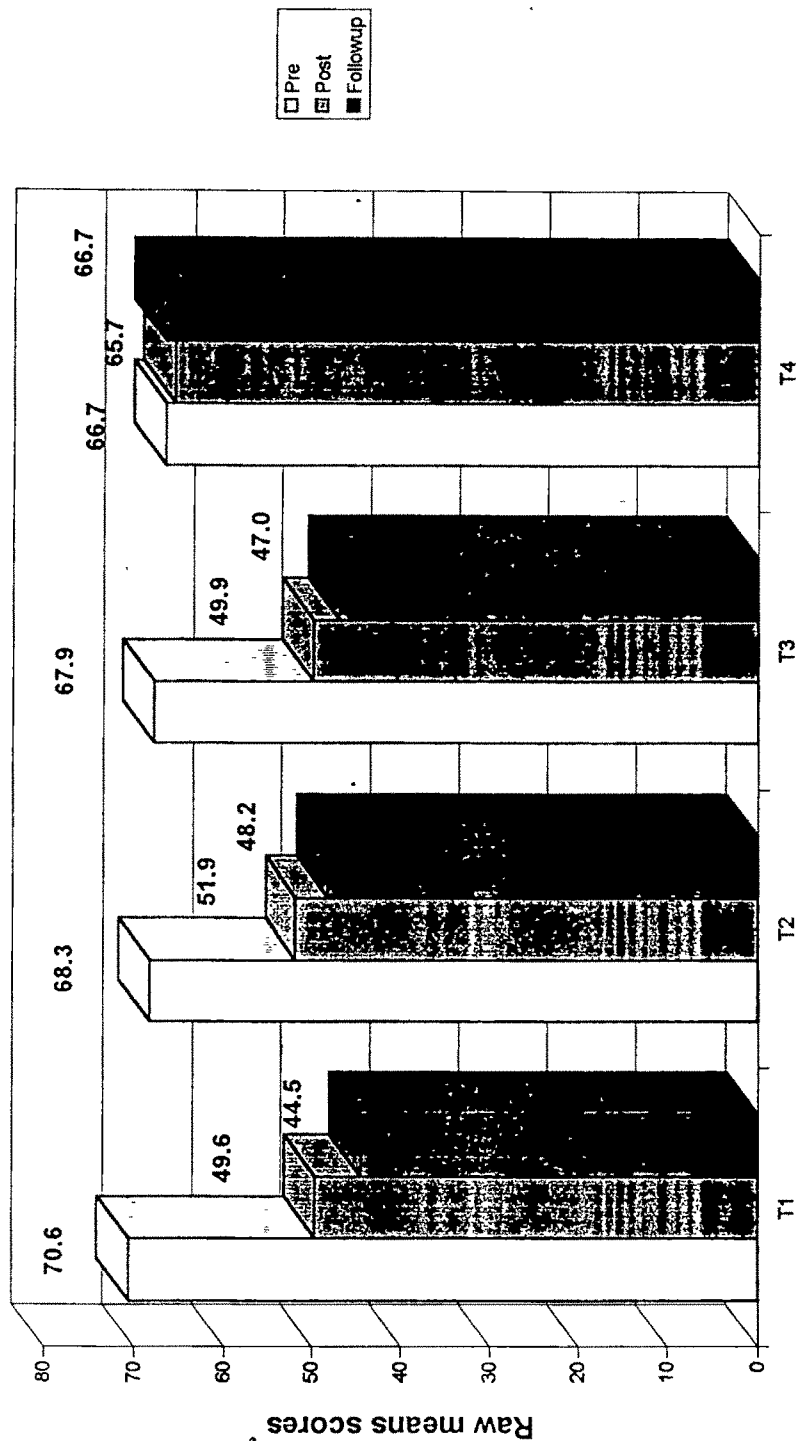
Table 56: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Post-scores for nonassertive overanxious disorder, treatment wise (T)

Nonassertive Overanxious disorder			
	To	M	SD
T ₁	496	49.6	6.9
T ₂	519	51.9	5.1
T ₃	499	49.9	8.9
T ₄	657	65.7	6.9

Table 57: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Followup-scores for nonassertive overanxious disorder, treatment wise (T)

Nonassertive Overanxious disorder			
	To	M	SD
T ₁	445	44.5	11.0
T ₂	482	48.2	8.2
T ₃	470	47.0	12.2
T ₄	667	66.7	6.7

GRAPH XVI Shows the Treatmentwise comparison of the adolescent's raw mean scores at Pre, Post and Followup level for nonassertive overanxious disorder.



- T1 : Role - playing group
- T2 : Covert modeling group
- T3 : Two Techniques combined group
- T4 : Control group

Table 58: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Pre-scores for nonassertive withdrawn disorder, treatment wise (T)

Nonassertive Withdrawn disorder			
	To	M	SD
T ₁	600	60.0	2.8
T ₂	559	55.9	3.9
T ₃	564	56.4	3.0
T ₄	574	57.4	3.5

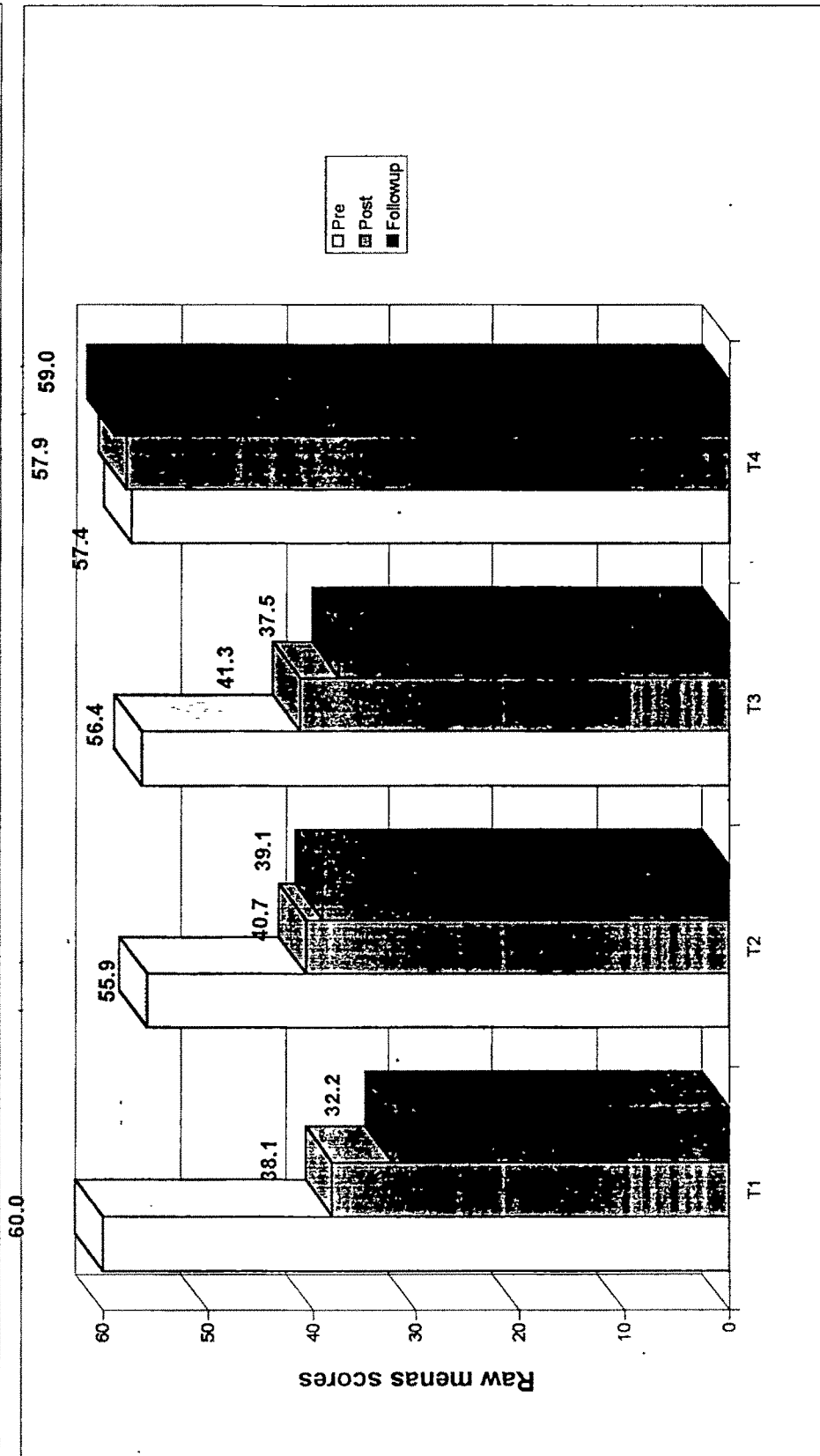
Table 59: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Post-scores for nonassertive withdrawn disorder, treatment wise (T)

Nonassertive Withdrawn disorder			
	To	M	SD
T ₁	381	38.1	3.5
T ₂	407	40.7	6.5
T ₃	413	41.3	4.0
T ₄	579	57.9	5.2

Table 60: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Followup-scores for nonassertive withdrawn disorder, treatment wise (T)

Nonassertive Withdrawn disorder			
	To	M	SD
T ₁	322	32.2	6.8
T ₂	391	39.1	8.4
T ₃	375	37.5	5.8
T ₄	590	59.0	4.8

GRAPH XVII Shows the Treatmentwise comparison of adolescent's raw mean scores at Pre, Post and Followup level for nonassertive withdrawn disorder



T1 : Role - playing group
T2 : Covert modeling group
T3 : Two techniques combined group
T4 : Control group

Table 61: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Pre-scores for nonassertive behaviour, treatment wise (T)

Nonassertive behaviour			
	To	M	SD
T ₁	1348	67.4	3.8
T ₂	1359	68.0	1.2
T ₃	1341	67.1	2.1
T ₄	1330	66.4	3.7

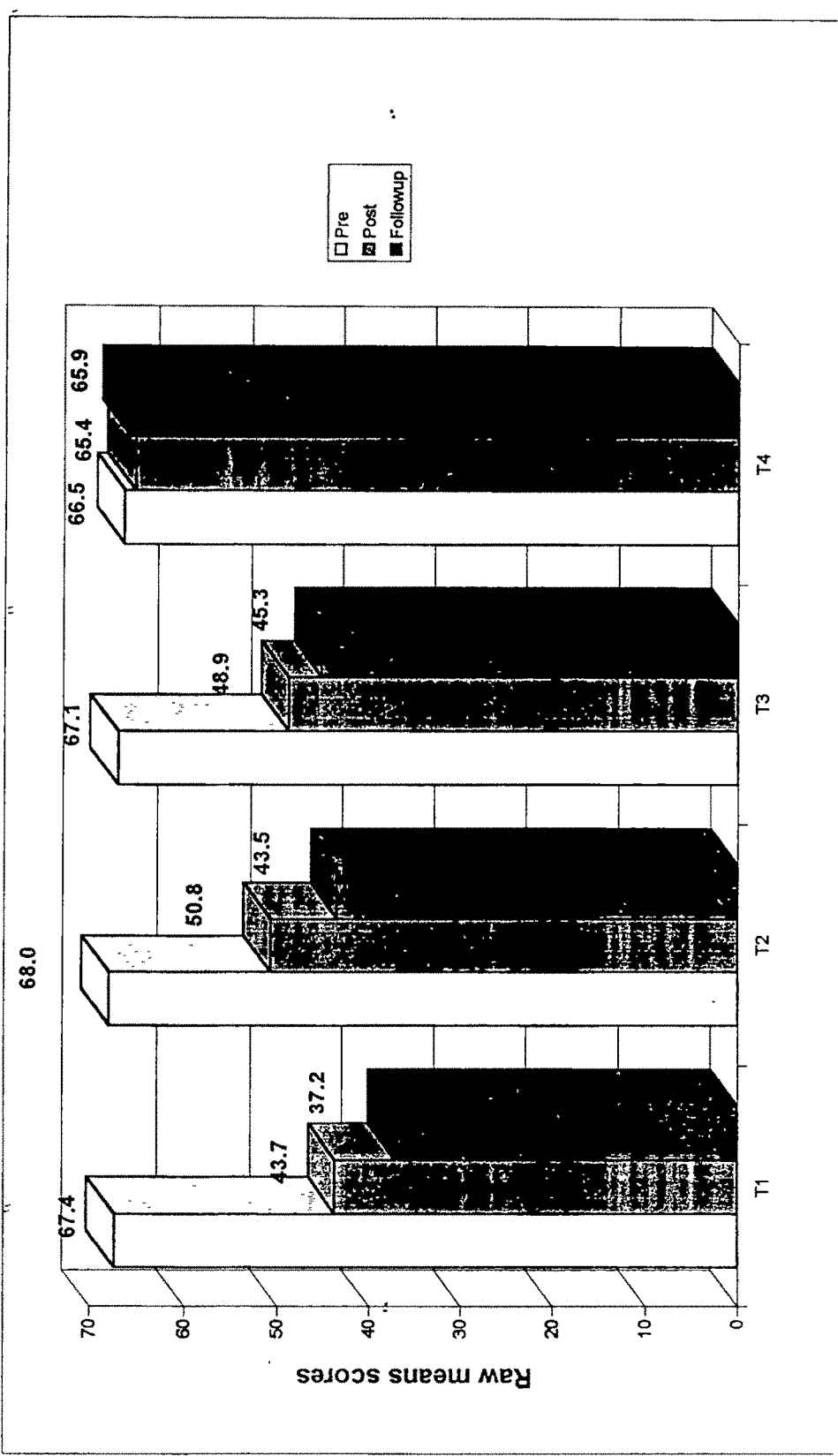
Table 62: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Post-scores for nonassertive behaviour, treatment wise (T)

Nonassertive behaviour			
	To	M	SD
T ₁	874	43.7	5.1
T ₂	1016	50.8	6.9
T ₃	978	48.9	7.1
T ₄	1308	65.4	3.4

Table 63: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Adolescents' Followup-scores for nonassertive behaviour, treatment wise (T)

Nonassertive behaviour			
	To	M	SD
T ₁	745	37.2	7.6
T ₂	871	43.5	9.8
T ₃	907	45.3	10.2
T ₄	1319	65.9	4.6

GRAPH XVIII Shows the Treatmentwise comparison of the adolescent's raw mean scores at Pre, Post and Followup level for nonassertive behaviour.

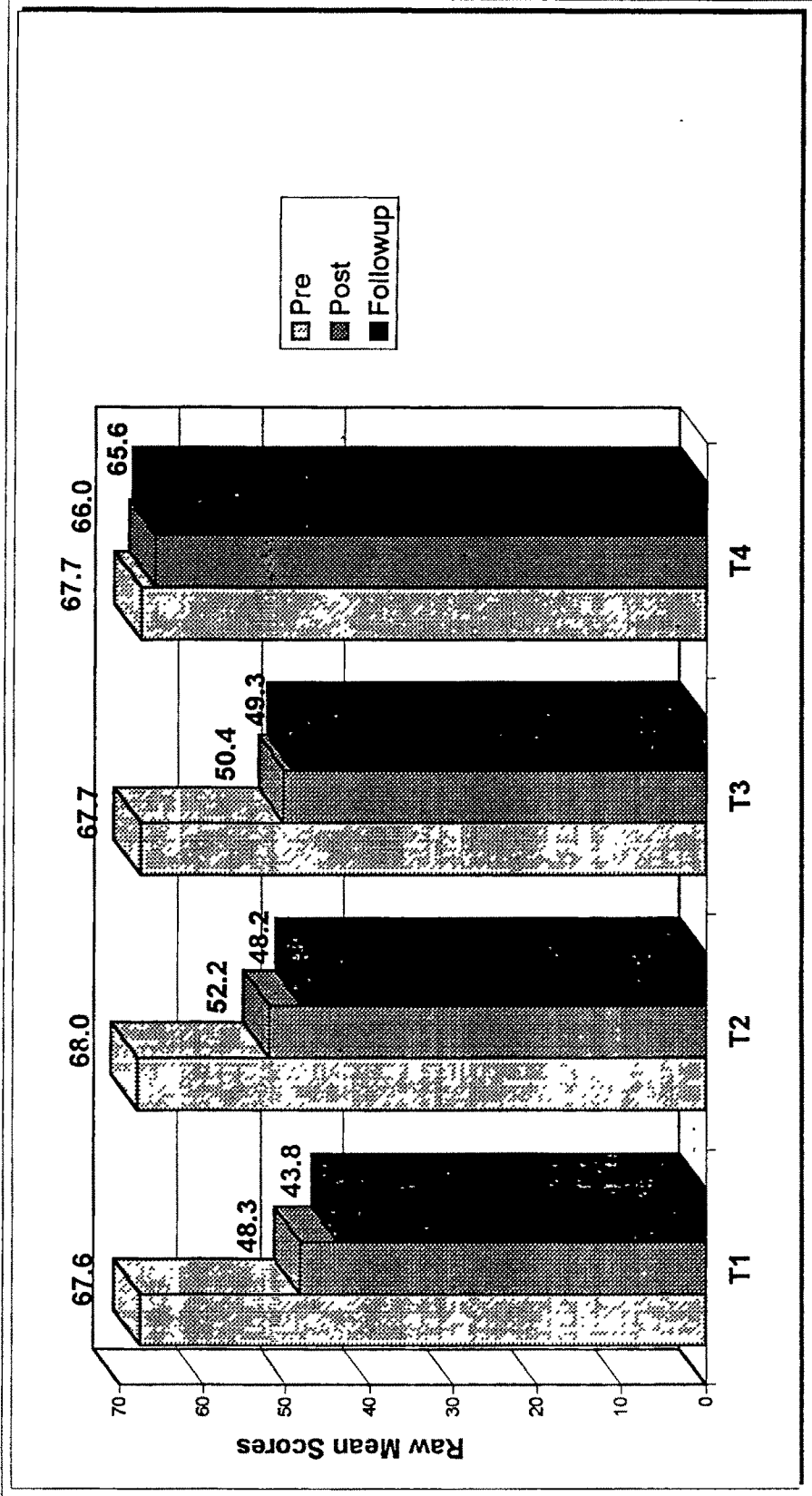


T1 : Role - playing group
T2 : Covert modeling group
T3 : Two techniques combined group
T4 : Control group

Table 64: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Parents' Pre-scores, Post-scores and Followup-scores for nonassertive overanxious disorder, treatment wise (T)

		Nonassertive Overanxious disorder		
		To	M	SD
Pre-scores	T ₁	676	67.6	8.1
	T ₂	680	68.0	5.9
	T ₃	672	67.2	4.9
	T ₄	677	67.7	6.1
Post-scores	T ₁	483	48.3	6.9
	T ₂	522	52.2	6.7
	T ₃	504	50.4	7.4
	T ₄	660	66.0	7.2
Followup-scores	T ₁	438	43.8	8.0
	T ₂	482	48.2	6.9
	T ₃	493	49.3	6.2
	T ₄	656	65.6	6.2

GRAPH XIX Shows the Treatmentwise comparison of the parent's raw mean scores at Pre, Post and Followup level for non assertive overanxious disorder.

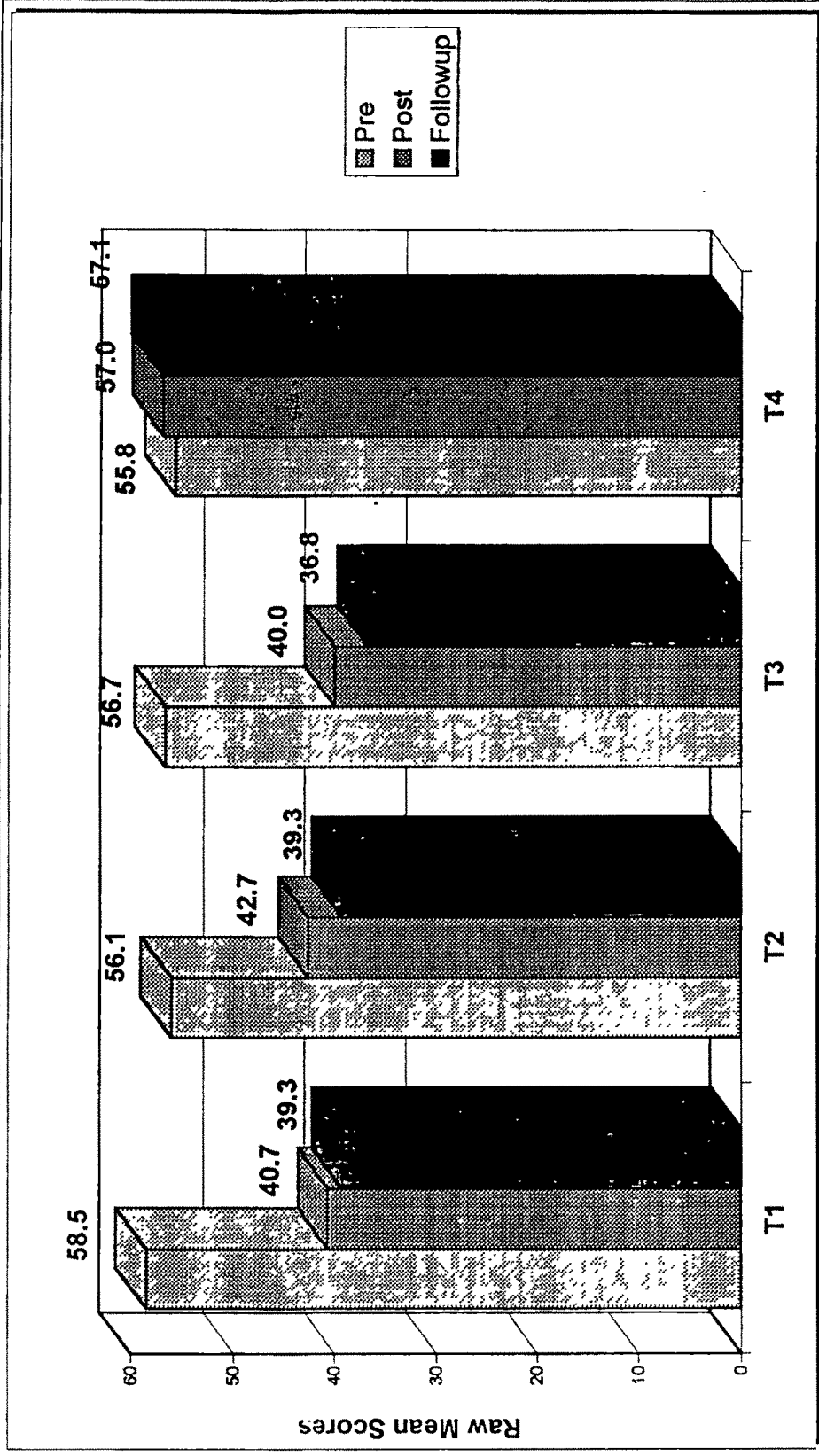


- T1 : Role - playing group
- T2 : Covert modeling group
- T3 : Two Techniques combined group
- T4 : Control group

Table 65: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Parents' Pre-scores, Post-scores and Followup-scores for nonassertive withdrawn disorder, treatment wise (T)

		Nonassertive Withdrawn disorder		
		To	M	SD
Pre-scores	T ₁	585	58.5	5.4
	T ₂	561	56.1	4.7
	T ₃	567	56.7	4.7
	T ₄	558	55.8	13.2
Post-scores	T ₁	407	40.7	3.4
	T ₂	427	42.7	5.9
	T ₃	400	40.0	4.7
	T ₄	570	57.0	13.4
Followup-scores	T ₁	393	39.3	3.6
	T ₂	393	39.3	5.6
	T ₃	368	36.8	3.6
	T ₄	571	57.1	13.6

GRAPH XX Shows the Treatmentwise comparison of the parent's raw mean scores at Pre, Post and Followup level for non assertive withdrawn disorder.

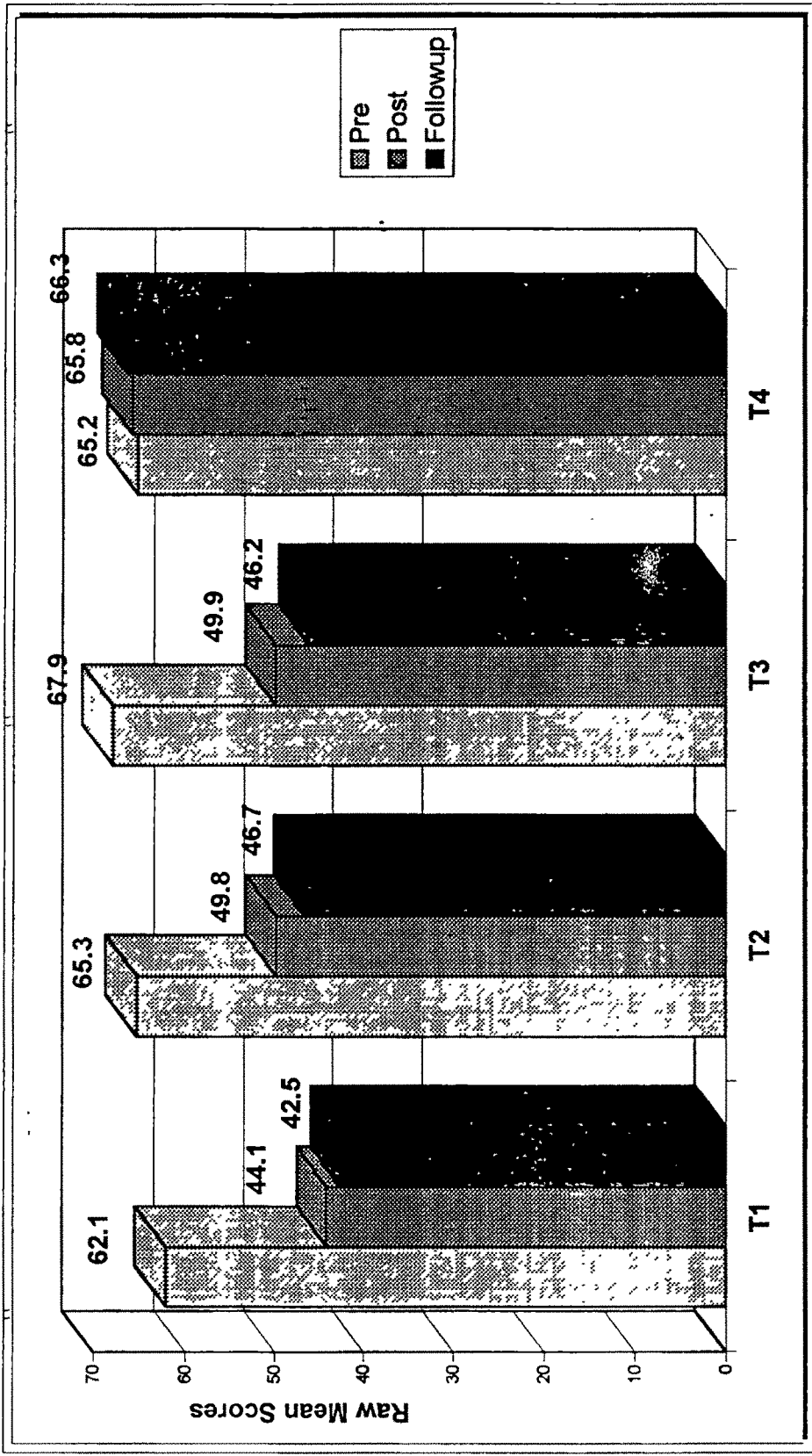


- T1 : Role - playing group
- T2 : Covert modeling group
- T3 : Two Techniques combined group
- T4 : Control group

Table 66: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Parents' Pre-scores, Post-scores and Followup-scores for nonassertive behaviour, treatment wise (T)

		Nonassertive behaviour		
		To	M	SD
Pre-scores	T ₁	1241	62.1	17.4
	T ₂	1305	65.3	15.5
	T ₃	1359	67.9	8.0
	T ₄	1303	65.2	1.4
Post-scores	T ₁	881	44.1	4.5
	T ₂	997	49.8	6.9
	T ₃	998	49.9	7.3
	T ₄	1317	65.8	5.3
Followup-scores	T ₁	850	42.5	5.5
	T ₂	934	46.7	6.3
	T ₃	923	46.2	7.7
	T ₄	1327	66.3	5.9

GRAPH XXI Shows the Treatmentwise comparison of the parent's raw mean scores at Pre, Post and Followup level for nonassertive behaviour



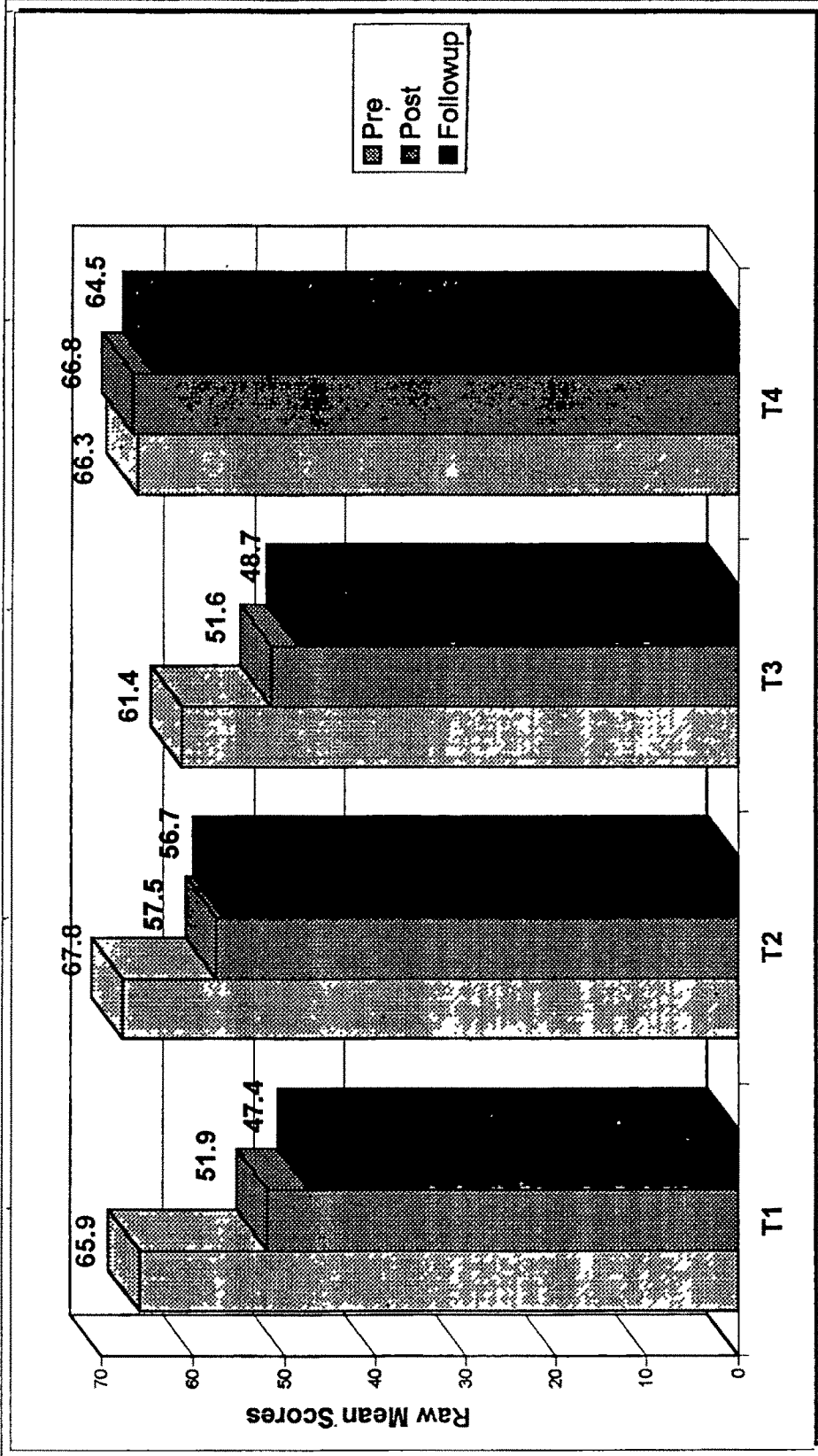
T1 : Role - playing group
T2 : Covert modeling group
T3 : Two Techniques combined group
T4 : Control group

Table 67: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Teachers' Pre-scores, Post-scores and Followup-scores for nonassertive overanxious disorder, treatment wise (T)

		Nonassertive Overanxious disorder		
		To	M	SD
Pre-scores	T ₁	659	65.9	4.2
	T ₂	678	67.8	7.9
	T ₃	614	61.4	26.8
	T ₄	663	66.3	5.3
Post-scores	T ₁	519	51.9	7.7
	T ₂	575	57.5	7.3
	T ₃	516	51.6	6.7
	T ₄	668	66.8	5.4
Followup-scores	T ₁	474	47.4	7.0
	T ₂	567	56.7	5.2
	T ₃	487	48.7	7.1
	T ₄	645	64.5	4.4

GRAPH XXII

Shows the Treatmentwise comparison of the teacher's raw mean scores at Pre, Post and Followup level for non assertive overanxious disorder.



T1 : Role - playing group

T2 : Covert modeling group

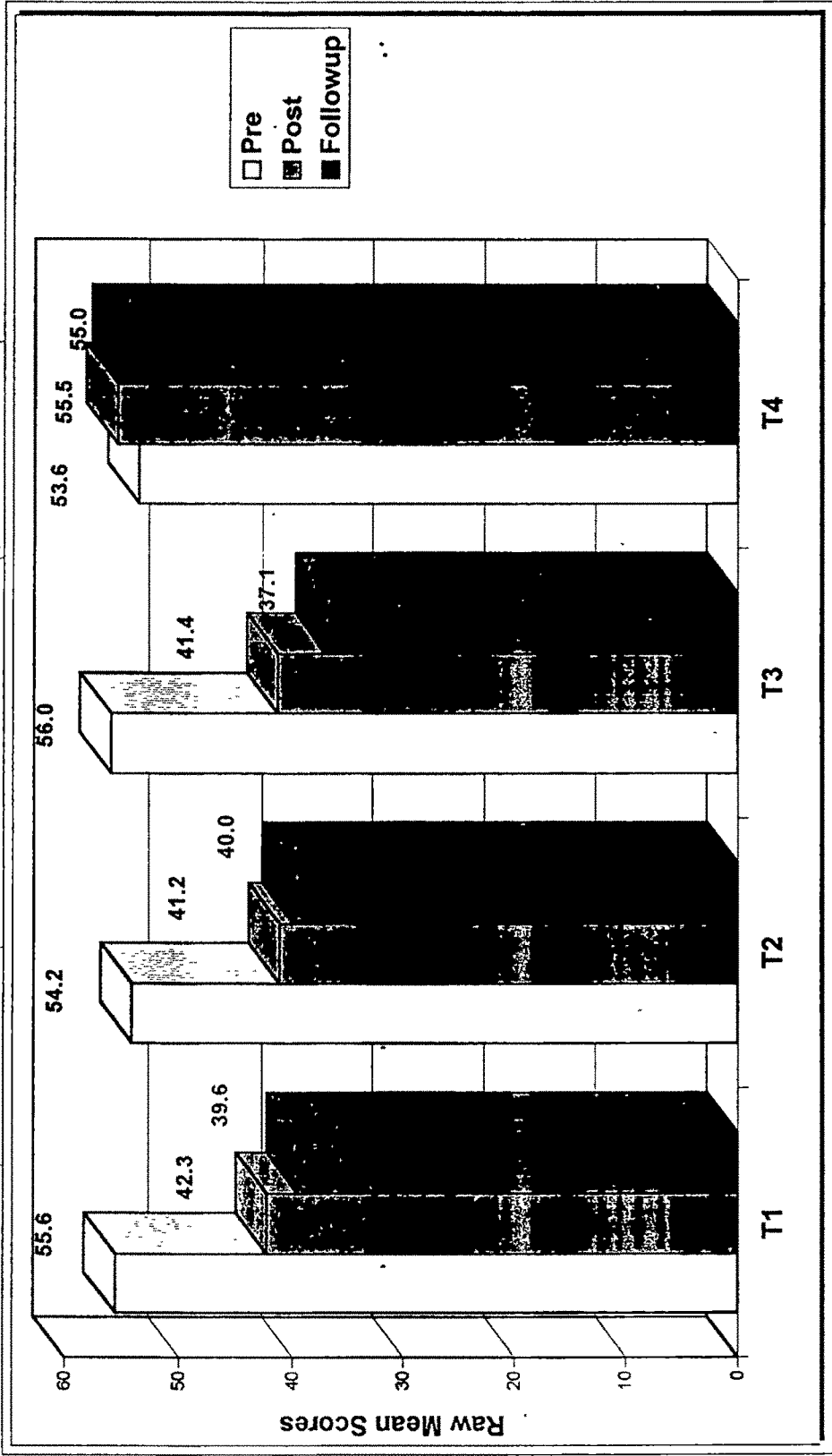
T3 : Two Techniques combined group

T4 : Control group

Table 68: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of Teachers' Pre-scores, Post-scores and Followup-scores for nonassertive withdrawn disorder, treatment wise (T)

		Nonassertive Withdrawn disorder		
		To	M	SD
Pre-scores	T ₁	556	55.6	5.2
	T ₂	542	54.2	5.6
	T ₃	560	56.0	0.89
	T ₄	536	53.6	4.0
Post-scores	T ₁	423	42.3	3.8
	T ₂	412	41.2	11.7
	T ₃	414	41.4	5.7
	T ₄	555	55.5	5.0
Followup-scores	T ₁	396	39.6	4.8
	T ₂	400	40.0	7.0
	T ₃	371	37.1	4.0
	T ₄	550	55.0	4.8

GRAPH XXIII Shows the Treatmentwise comparison of the teacher's raw mean scores at Pre, Post and Followup level for withdrawn disorder.



- T1 : Role - playing group
- T2 : Covert modeling group
- T3 : Two techniques combined group
- T4 : Control group

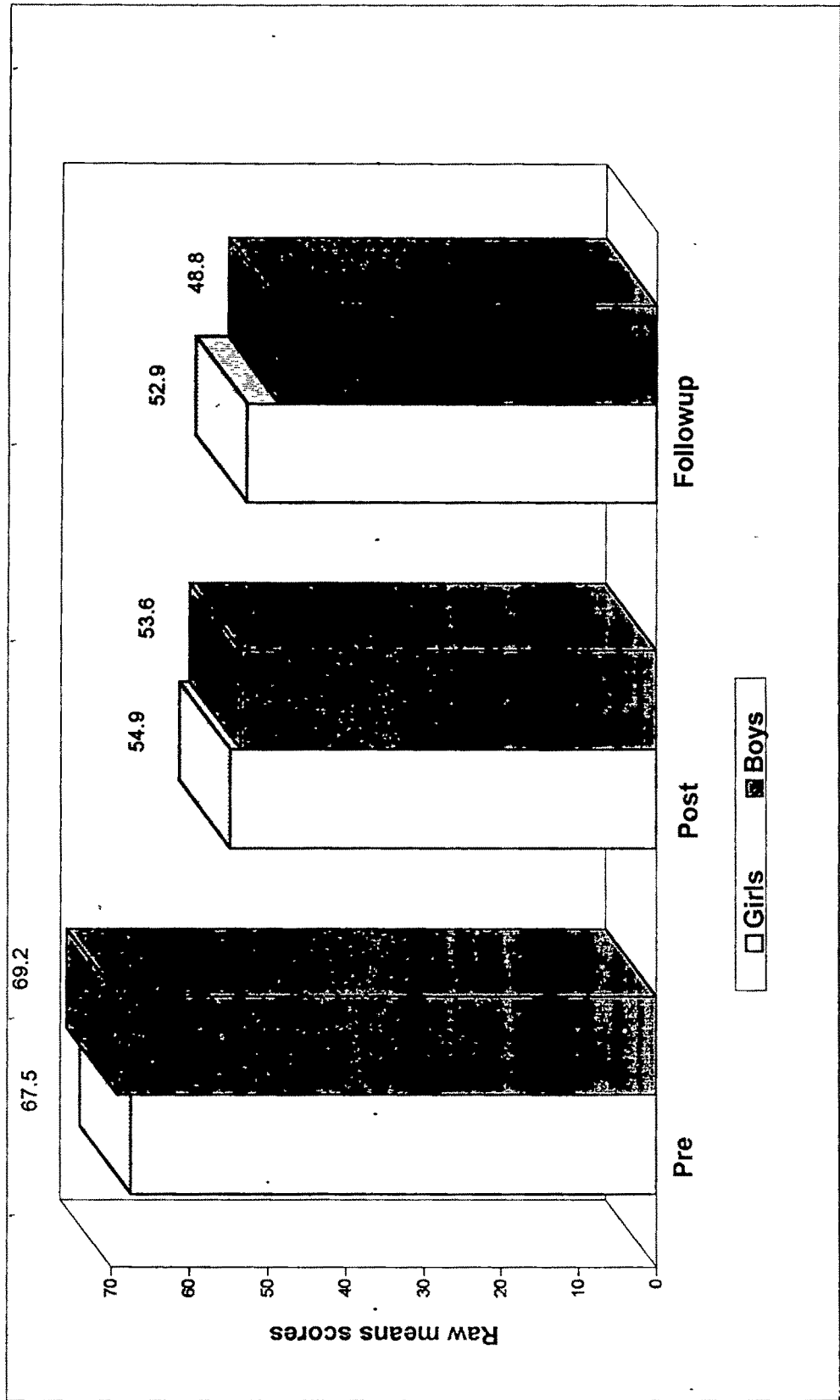
Table 69: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of all the Girls taken together for Pre, Post and Followup scores of nonassertive overanxious disorder, nonassertive withdrawn disorder and nonassertive behaviour

		To	M	S.D
Nonassertive overanxious disorder	Pre	1351	67.5	6.3
	Post	1098	54.9	9.9
	Followup	1058	52.9	11.9
Nonassertive withdrawn disorder	Pre	1167	58.3	3.7
	Post	913	45.6	9.8
	Followup	873	43.6	13.1
Nonassertive behaviour	Pre	2680	67.0	3.4
	Post	2132	53.3	8.8
	Followup	1966	49.2	13.6

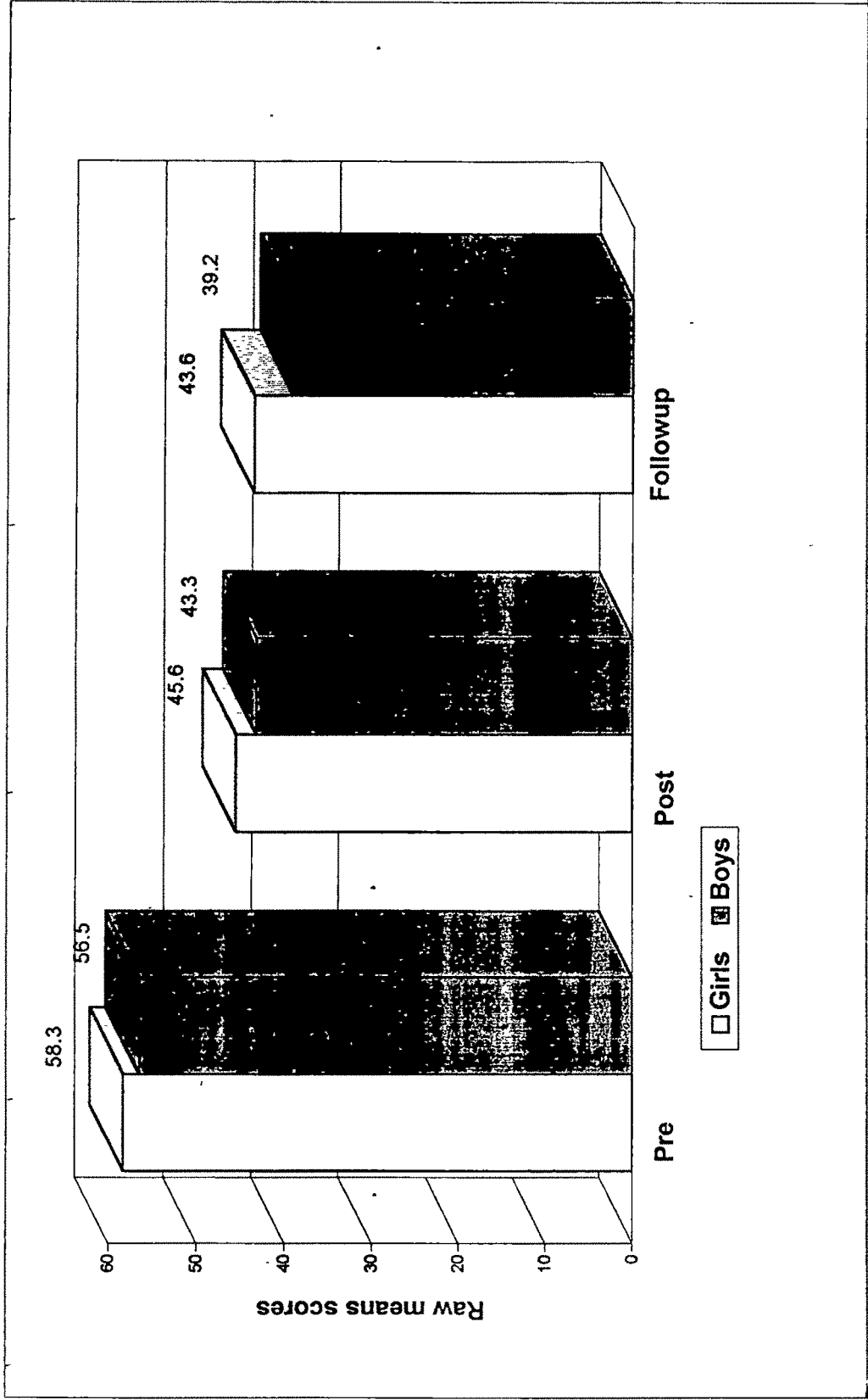
Table 70: Shows the Totals (To), Means (M) and Standard Deviations (S.D's) of all the Boys taken together for Pre, Post and Followup scores of nonassertive overanxious disorder, nonassertive withdrawn disorder and nonassertive behaviour.

		To	M	S.D
Nonassertive overanxious disorder	Pre	1384	69.2	5.9
	Post	1073	53.6	9.7
	Followup	976	48.8	11.8
Nonassertive withdrawn disorder	Pre	1130	56.5	4.1
	Post	867	43.3	9.0
	Followup	785	39.2	14.2
Nonassertive behaviour	Pre	2682	67.0	2.2
	Post	2044	51.1	10.7
	Followup	1876	46.9	13.0

GRAPH XXIV Shows the comparison of raw mean scores of Girls and Boys at Pre, Post and Followup level for non assertive overanxious disorder.



GRAPH XXV Shows the comparison of raw mean scores of Girls and Boys at Pre, Post and Followup level for non assertive withdrawn disorder.



GRAPH XXVI Shows the comparison of raw mean scores of girls and boys at Pre, Post and Followup level for nonassertive behaviour.

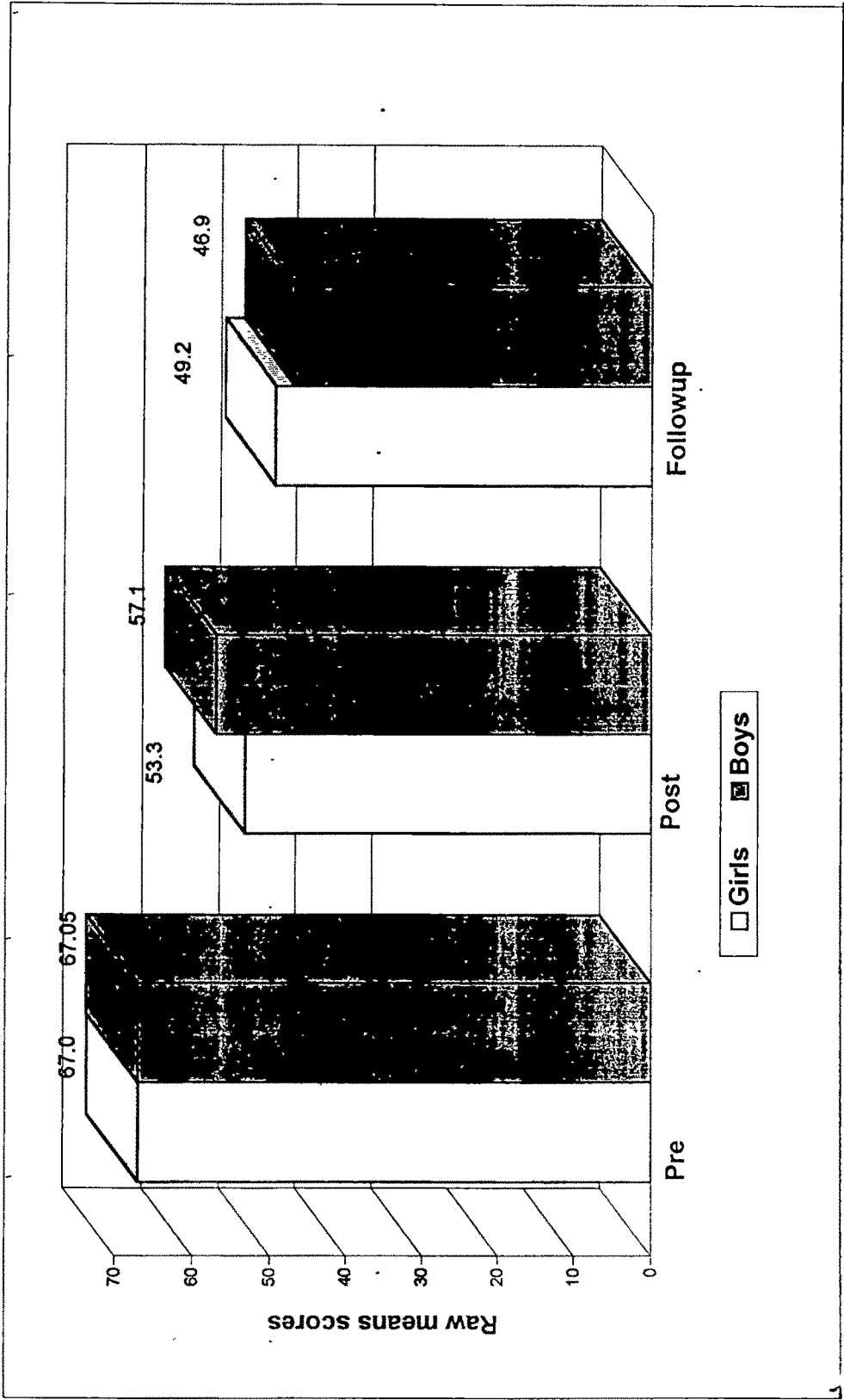


Table 71: Shows, at a glance, the t-test results of adolescents, parents, and teachers for all the three levels for Nonassertive Overanxious Disorder, treatmentwise.

		Nonassertive Overanxious Disorder		
		Adolescents' Scores	Parents' Scores	Teachers' Scores
Pre-Post level	t ₁	7.5**	6.5**	4.8**
	t ₂	6.3**	5.4**	2.8**
	t ₃	5.1**	5.7**	1.1
	t ₄	0.3	0.5	0.2
Post-Followup level	t ₁	1.2	1.3	1.3
	t ₂	1.2	1.3	0.3
	t ₃	0.6	0.3	0.9
	t ₄	0.3	0.1	1.0
Pre-Followup level	t ₁	6.6**	6.2**	5.8**
	t ₂	6.1**	6.4**	3.5**
	t ₃	4.7**	6.8**	1.4
	t ₄	0.0	0.7	0.8

Table 72: Shows, at a glance, the t-test results of adolescents, parents, and teachers for all the three levels for Nonassertive Withdrawn Disorder, treatmentwise.

		Nonassertive Withdrawn Disorder		
		Adolescents' Scores	Parents' Scores	Teachers' Scores
Pre-Post level	t ₁	14.6**	12.6**	2.2*
	t ₂	6.1**	5.3**	3.0**
	t ₃	8.9**	7.5**	5.6**
	t ₄	0.2	0.2	0.9
Post-Followup level	t ₁	2.3*	0.9	1.3
	t ₂	0.5	1.3	0.6
	t ₃	1.6	1.7	2.2*
	t ₄	0.5	0.02	0.2
Pre-Followup level	t ₁	11.6**	10.7**	6.9**
	t ₂	5.4**	7.0**	4.7**
	t ₃	8.5**	10.4**	8.5**
	t ₄	0.2	0.3	0.6

Table 73: Shows, at a glance, the t-test results of adolescents, parents, and teachers for all the three levels for Nonassertive Behaviour, treatmentwise

		Nonassertive Behaviour	
		Adolescents' Scores	Parents' Scores
Pre-scores	t ₁	16.8**	14.3**
	t ₂	10.1**	8.8**
	t ₃	10.1**	7.8**
	t ₄	0.6	0.4
Post-scores	t ₁	3.1**	0.9
	t ₂	2.7**	1.4
	t ₃	1.2	1.5
	t ₄	0.4	0.3
Followup-scores	t ₁	16.7**	14.7**
	t ₂	10.6**	8.8**
	t ₃	9.1**	8.0**
	t ₄	0.4	0.7

* Significant at 0.05 level of significance

** Significant at 0.01 level of significance