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¹ Tobacco Abuse in Adolescents: The Role of Psychosocial Factors

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6 Abstract

⁷ The present investigation was done to examine the role of anxiety, stress, family conflict and

⁸ family control in the determination of adolescents smoking. For accomplishing these

9 objectives, a sample of 240 students studying in different schools from two districts of

¹⁰ Himachal Pradesh (Shimla and Solan) was taken. The age range of the sample was 14-19

¹¹ years. 2x2x2 factorial design was used to study the significance of difference between groups

12 (smokers and nonsmokers), schools (public and private) and gender (males and females) on

¹³ anxiety, stress, family conflict and family control. Results revealed that smokers irrespective of

¹⁴ gender and type of school were significantly higher on anxiety, stress, family conflict and

¹⁵ family control. Further, on family control the interaction effects of group or school and gender

- $_{16}\;$ or school have been found to be significant
- 17

18 Index terms—Smoking, Anxiety, Stress, Family Conflict, Family Control, School and Gender

19 1 INTRODUCTION

he adolescent years are among the most stressful times in a person's life. It is a period of "growing up". There
are many risk factors for initiating smoking by adolescents such as personal factors (e.g. age, sex, personality
constructs, values, self esteem, self image, stress, anxiety, depression, boredom etc.), social factors (family, school,
peer, media influence etc.) and belief about smoking (positive attitudes and perceived positive benefits and norms
about smoking etc.).

25 The popular belief is that it is stress which is related to daily hassles and family life patterns that makes an 26 individual to follow drug addiction to overcome these stresses. Youngsters suffering the insecurities of adolescence may find the image they would like to convey (Aloise Young et al., 1996), consistent with this point, teenagers 27 whose ideal self image is close to that of a typical smoker are most likely to smoke (Barton et al., 1982). Low 28 self esteem, dependency, powerlessness and social isolation all increase the tendency to imitate other behaviour 29 (Bandura, 1977). Social influences to smoke appear to be among the most critical factors in smoking acquisition. 30 The smoking habit is strengthened by such positive rein-forcers as pleasure from the smell of tobacco smoke, 31 feelings of relaxation and satisfaction of physical and psychological needs. Irfat Khan and Srivastava (2008) 32 found that smokers were significantly high on the level of stress and anxiety both, the strong association between 33 smoking, stress and anxiety, Whereas, close relationships between parent-child being in a healthy relationship 34 protect their children from the smoking habits. Anxiety has been implicated in smoking initiation, maintenance 35 36 and relapse (Morissette et al., 2007). The interaction between personality of the individual and his environment 37 make him prone to various kinds of addictive products. Family environment serves as a precipitating and one of 38 the most potent factors of antisocial activities. Defective discipline and lack of moral atmosphere at home are 39 considered responsible for antisocial behaviour, crimes and delinquency among the students. ??tten et al. (in press), found that smoking-specific parenting practices, assessed by parental reactions to smoking, house rules on 40 smoking and communication about smoking, were indeed predictive of adolescents' smoking related cognitions. 41 Content specific parental monitoring efforts are commonly considered key factors in explaining and deterring 42 adolescent smoking behaviour and include parent-child communication about substance use and substance specific 43 rules (Juon et al., 2002;. 44

6 C) FAMILY ENVIRONMENT SCALE (FORM-R)(MOOS AND MOOS, 1986)

Adolescence is often a difficult period for youth in Indian society because parents do not tend to realize that their children are growing up and their behaviour towards adolescents needs to reform. Where parents are autocratic possessive, very much controlling and interfering, adolescents perceive it negatively and show aggressive and risk taking behaviour like smoking, drug addiction etc. authoritative parenting has been found to have favorable effects on adolescent smoking (Pierce et al.,2002;Simons Morton, 2002; ??'Bryne et al.,2002;.

Adolescents who reported low levels of parental support, affection, monitoring and more family control and conflict, they are prematurely impelled to go to the bad companies. A family with poor and unhealthy environment creates stress and anxiety among its members. Levels of stress i.e. daily life hassles and life events regarding family matters are significantly more in drug users as compared to normal's ?? Chasson et al., 2003).

⁵⁵ Close relationships, healthy open communication and perceived parental support are especially important ⁵⁶ during adolescence, as they experience many physical and emotional changes and upheavals. Adolescents who have ⁵⁶ positive relationships with their parents are more likely to report high levels of perceived well-being. Adolescents ⁵⁷ who report difficult talking with their parents are more likely to smoke cigarette to allay their anxiety and stress. ⁵⁸ On the basis of the above studies, the present investigation aims to examine the level of anxiety, stress, family

59 conflict and family control among adolescent's smoker and nonsmokers.

⁶⁰ 2 II. METHOD

A factorial design of the order of 2X2x2 was used to compare the scores on stress, anxiety, family conflict and family control for group (smokers and nonsmokers), schools (public and private) and gender.

⁶³ **3 III.**

64 4 SAMPLE

A sample of 240 students (males and females) of school level was drawn randomly from Shimla and Solan district
 of Himachal Pradesh. The subjects were taken of the age group of 14 to 19 years.

⁶⁷ **5 IV**.

TOOLS a) State-Trait Anxiety Inventory (STAI) (Spielberger, Sharma and Singh 1973) The Hindi version of the 68 STAI was used in this study, in order to measure the trait anxiety of the subjects. The STAI provides internally 69 consistent, reliable and valid scores for measuring both state and trait anxiety. In the present study, only the 70 A-Trait scale of the STAI was used. It consists of 20 statements. Scoring was done with the help of scoring 71 key. The test re-test reliability of the Hindi STAI is quite stable which range from .77 to .83 over the 30 to 72 90 days period. b) ICMR Psychosocial Stress Questionnaire ??Srivastava, 1991-92) The stress questionnaire is 73 designed by "Indian Council of Medical Research (ICMR)" New Delhi to assess the extent of basic components of 74 psychological stress. Teenagers usually face with some specific stress situations. In view of these fact additional 75 short measures of stress consisting of 7-items, for educated teenagers, was prepared. In order to indicate the 76 frequency of amount of stress experienced by the respondent each item in two measures of psychosocial stress 77 was to be rated on 4 point scale, i.e. not at all/little/mild or sometimes/ moderate or many times/ severe 78 or often (corresponding numerical scores from 0 to 3 respectively). Next, translated and standardized Hindi 79 version of Srivastava's Special Stress Scale for teenagers (students) Jyoti Sharma and Anita Sharma, 2010 was 80 administered. The test-retest reliability of Srivastava's Special Stress for teenagers and its translated version was 81 found to be .88 which is significant at .01 levels. 82

⁸³ 6 c) Family Environment Scale (Form-R)(Moos and Moos, ⁸⁴ 1986)

Family environment scale was used in the present study. The scale consists of 90 true-false items related to family
behavior consisting of 3 main dimensions viz. relationship, personal growth and system maintenance dimension.
a.) the relationship dimension (RD) is assessed by three subscales: cohesion, expressiveness and conflict. b.)
the personal growth (PGD) is assessed by five subscales viz. independence, achievement orientation, intellectual
cultural orientation, active-recreational orientation and moral religious emphasis. c.) the system maintenance
dimension (SMD) is assessed by two subscales viz. organization and control.

In the present study, only two sub dimensions viz. family conflict and family control have been used. Raw scores were obtained by placing the scoring stencil on the protocols as per direction in the manual. The validity and reliability of the scale is above .85 as per the manual. d) Smoking Core Questionnaire (Sharma and Sharma , 2010)

A self report questionnaire with 20 items was developed to identify the smokers.

In this questionnaire, questions asked about subject's use of tobacco, knowledge and attitude towards tobacco and towards stopping smoking.

98 V.

99 7 RESULTS

In the first place, means were calculated for the factor of anxiety, stress, family conflict and family control and then ANOVAs were computed for the same. The details of the values obtained are shown in Table - The interaction between schools and gender has also turned out to be significant at .01 level ??17.198** at p < .01) which shows that the public school females score significantly higher on family control as compared to public school males, whereas, private school males score significantly higher on family control as compared to private school females.

106 VII.

107 8 **DISCUSSION**

Tobacco is one of the most addictive substances we know however, is fully legal for use by adults and readily available for use by adolescents. Tobacco Abuse in Adolescents: The Role of Psychosocial Factors school, the number of smokers is about 31 percent and 10 percent of the girls are addicted to tobacco usage.

Today adolescents are exposed to a variety of stresses (i.e. attending classes, examination, fear about results, 111 112 misconception about teachers and parents, fear of self image, fear and concern about future, fear about isolation and rejection etc.). Adolescents who see cigarette a way to handle negative feelings are more likely to ignore the 113 long term health consequences of smoking. The smokers feel relaxed when smoking and tense without nicotine, 114 115 thus their tobacco and cigarettes are seen as helping them cope with the stresses and strain of everyday life 116 (Warburton, 1992). Overtime smoking also becomes a crutch for many used to handle stress, anxiety, boredom and tension etc. ??Lloyd and Taylor,2006). According to Mental Health Foundation (2007), cigarette smoking is 117 linked with a wide range of psychiatric diagnoses including anxiety, agoraphobia and panic disorder but especially 118 with depression. 119

Smoking behaviors are negatively reinforced when they are followed immediately by removal of or lessening of an unpleasant condition. According to smokers, smoking is sometimes seen as a device for controlling unpleasant effects. After smokers become addicted, they must continue to smoke to avoid the aversive effects of withdrawal that is, when addicted smokers begin to feel tense, anxious or depressed after not smoking for some period of time, they can remove these unpleasant symptoms by smoking another cigarette ??Steven et al., 2005). ??kuyemi and colleagues (2006), demonstrated that smokers may have greater sensitivity to anxiety eliciting stimuli than nonsmokers.

On the other side, family is a strong unit and plays vital role in shaping attitudes behavior of its member 127 particularly that of children and adolescents. Adolescents who reported low level of parental support and affection, 128 more family conflict and family control were more likely to engage in high delinquent behavior (Kosten, Novak 129 and Kleber, 1984). Stable family relationships and parental guidance are extremely important molding influences 130 for children and this stability is lacking in families of dependent youth. The tension that exists in many "intact" 131 families of smokers results from hostility, argument and primarily the factors of family environment viz. less 132 cohesion, less independence and more conflict. This type of tensionfilled family environment is obviously not 133 conducive for making the youngsters feel secure and contented (Verma, 2006). The interaction effect between 134 groups and schools has also yielded a significant F-ratio at p<.01 level on the variable of family control. The 135 results could best be depicted through the two ways interaction between groups and schools can be conformed 136 through the curves (fig. 1). The curve reveals that public school smokers score significantly higher on family 137 control as compared to private school smokers. Whereas, public school nonsmokers and private school nonsmokers 138 are more or less perceive the same control. The interaction effect between schools and gender has been yielded 139 a significant F-ratio at p < .01 on the variable of family control. The results could best be depicted through the 140 two ways interaction between schools and gender which have been found to be significant and conformed through 141 the curves (fig. ??). The curve reveals that public school females score higher on family control as compared to 142 public school males, whereas, private school males score significantly higher on family compared to private school 143 144 females

Poor family environment triggers stress and anxiety which further results into delinquent behaviour among 145 adolescents. The results clearly reveal that individual personality or emotional upset like stress and anxiety and 146 the importance of family environment in one's life in the onset of drug addiction. Strict control in females leads to 147 not acquiring the habit of smoking. Hampel and Petermann, (2005); Seiffgekrenke and Beyers, (2005), highlighted 148 that girls experience more stress and anxiety than boys with regard to future related problems. Maladjustment 149 among students has been found one of the major factors responsible for causing delinquency and crime (Kour, 150 2008). Female become the chief targets of family conflict and control because of their weaker sex and undefined 151 and multiple role ??Sharma et al., 2008). Female belonged to more controlled environment, where parents keep a 152 check on their children, guided them, supporting, giving love and care and affection to follow adaptive behaviour 153 as compared to males (Chassin et al., 1991; ??otlib and Avision, 1993). Ameerjan (1994), reported that girls 154 155 perceive their parents in a more positive way as they are socialized to be more nurturing, obedient and responsible 156 as compared to boys. In cases where parents are more interfering, controlling, enforcing rules, exercising hostile control, their adolescent children are found to be more frustrated than where such a parental behaviour is absent. 157 Drug addict's families have been found to be poorly cohesive, full of conflict with excessive control leading to 158 stress and anxiety. 159

- In a nutshell, the results of the present study show that family conflict, family control, stress and anxiety contribute significantly to the development of drug addiction and delinquency.
 - VIII.



Figure 1:

162

Groups x Schools (AxB).004Groups x Gender (AxC)6.33% ontS.no (AxBxC) School x Gender (BxC) Variables Groups x Schools x Gender Groups SmokersNon-Sm

November 3. 4. Error Total d) Family Control Source 46.49.41 9.33 3.85 4.34 527.767 615.397 Sum of squ 2011of variance Anxiety Stress Family conflict Family 11.17 control Groups (A) 4.94 5.28

Schools (B) 14.017 Global Gender. Sum of squares .067 15.000 1550.417 17.067 156.817 46.817 41.667 17.604 .704 10.838 1.838 1 Journal of Human Social Science Volume XI Issue VIII Version Ι Error that smokers score significantly higher on the family 2430.300 Total conflict variable as compared to the nonsmokers. 2675.496 The rest of the F-ratios for schools, gender and c) Family Conflict interaction are non significant. Source of variance d) Family Control: On this factor of family environment, Sum of squares df the F-rat

has also turned out to be significant at .01 level

[Note: © 2011 Global Journals Inc. (US) **: Significant at p<.01 level.]

Figure 2: Table - 2

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-

PrivatePrivatePublicSmokers4.785.77Non-smokers4.354.34Figure-1 : Interaction Effect of Group, Gender on the variable of Family Control

Figure 3: Table - 3

Figure-2 : Interaction E	Effect of Gender	and Schools fo	r the variable of f	amily control
			Males	Females
Public			4.69	5.42
Private			4.97	4.16

Figure 4: Table - 4

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