

# ***A Study of Interpersonal Relationships and Mental Health in Adolescence***

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**Abstract:** Interpersonal communication is a critical skill in the socialization process of adolescents. It is the only way that individual human has relationship with others. Good interpersonal relationships are beneficial to the physical and mental development of adolescents. However, in recent years, a series of mental health problems are generated because of adolescents' interpersonal communication. This article mainly analyzes the main factors that cause adolescents' social barriers from the aspects of interpersonal relationships in school and family relationships. A survey is made that includes seven daily questions about interpersonal relationship in these two aspects. The results of these studies can directly exhibit the results of a part of adolescents' present situation in making friends and make people pay more attention to the interpersonal communication and mental health of adolescents.

**Keywords:** adolescents, interpersonal relationship, family and peers

## **1. Introduction**

### **1.1. Background**

Adolescence is a path for everyone to become mature and it is also the most significant period for teenagers to have contact with society. Young people began to gradually have their own subjective thoughts and opportunities to communicate with people who are not familiar with them before [1]. However, during social contact, interpersonal relationship has become a major problem for many teenagers due to several factors. Many young people cannot take the initiative to establish some good interpersonal relationships [2]. social anxiety disorder [3] seems a typical negative reflection of interpersonal relationship. that can be influenced by growing environment, actually the family [4]. SAD will bring influence on adolescents' socialization. At the same time, as teenagers spend more time in school, interacting with peers is a new type of social interaction. When peers get along with each other, many problems may arise due to differences in thinking or personality [2].

Gradually, under the influence of the long-term family environment and peer interaction patterns, some teenagers have a series of mental health problems. Including social phobia, low self-esteem, teenage depression etc.[5].

In this article an in-depth analysis of the influence of family and school on the social interaction of adolescents is conducted, and at the same time the process of mental health problems is discussed.

## **1.2. Parent-child relationships**

From the current research results and theories, parent-child relationship has undoubtedly the greatest impact on the development of adolescents [6]. In general, there are four models from previous empirical researches that were used for describing different patterns of how friendships may moderate the association between parent-adolescent relationships and adolescent emotional functioning: 1) the reinforcement model, 2) the toxic friends model, 3) the compensation model, and 4) the additive model. The quality of the relationship between adolescents and parents was assessed with two subscales of the Network of Relationships Inventory: satisfaction and conflict [7]. Open and inclusive family relationships can not only enable children to gain more self-confidence and self-affirmation, but also subtly reduce teenagers' social anxiety, and more conducive to cultivating their ability to regulate emotions and independent thinking [8]. Based on the past experiments and researches, scientists found that if parents reported higher levels of positive problem solving and conflict engagement towards their children than adolescents, whereas the youth reported significantly higher levels of withdrawal towards their parents than the adults [9]. Nowadays, in the fast-paced life state, the increasing lack of work pressure makes it hard for many parents to balance work and life, and therefore miss the important stage of their children's growth. Meanwhile, parents who under high stressed life and engage in parenting practices frequently can have negative effects on children (e.g., authoritarian parenting, overprotection and higher child neglect and abuse potential) [10]. There are many practical reasons that make conflict and confrontation in parent-child relationship become more common than concern and love. For instance, during the lockdown of COVID-19, it is reported that in comparison to the period before, child emotional neglect was three times higher [11]. One of the risk factors of this problem when the pandemic broke out could be parental burnout, which is defined as "a state of intense exhaustion related to one's parental role, in which one becomes emotionally detached from one's children and doubtful of one's capacity to be a good parent" [12][13]. In the family, every move of parents will be seen and even imitated by children, especially for younger children, observing their parents' behavior is the most common way they learn to interact with the world. The unhealthy family relationships will indirectly affect the way and attitude of teenagers towards interpersonal relationships, so that they can not maintain a positive attitude when they get along with their peers. The different growth environment and life experience of parents and teenagers will also lead to communication difficulties in parent-child relationship and the situation that both parties cannot communicate effectively.

## **1.3. Relationships among peers**

In addition to the parent-child relationship in the family environment, school is another important place for teenagers to socialize, so that the interpersonal relationships between students also have an important impact on teenagers' health behavior choices, academic performance, spiritual world construction and mental health [14]. Normally, familiar adults such as parents and teachers are recognized as a certain sense of security for adolescents, but peers, in particular, make students' time at school more and more enjoyable. With the increase of time with schoolmates and the maturity of adolescent minds, the status in peer social networks will have a more significant impact on students [2]. Good relationships with peers can help teens deal with setbacks in a more positive way, give them more opportunities to talk to when they are down, and improve their ability of self-healing and relieving stress. As the progress of technology, the social ways of high school students also tend to be diversified, the amount of screen time that spent on socializing is rising quickly, these teenagers

might get many kinds of feedback when they are spending time with peers or browsing the social media, some people can gain more strength in the process of being familiar with others, while someone may lose confidence and affect their self-esteem by comparing themselves with others. A number of studies have shown that the increase in the use of electronic products can increase the probability of depression, self-harm and even suicide [15]. Meanwhile, longitudinal studies have also illustrated that low levels of self-esteem have been linked with delinquency, substance abuse, depression, anger, and aggression [16]. Since adolescence is as well as a developmental period characterized by the desire to “fit in” with peers although they may from different growth settings and family systems. Previous study had shown that having supportive friendships, feeling liked by others, and playing or socializing with others may be important protective factors for depression [17]. The quality of friendships between teenagers and their close friends is also correlated with the number of friends they have. A cross-sectional mediation analysis had demonstrated that singles were more invested in their friendships than partnered people, whereas greater friendship investment predicted better friendship quality and self-esteem over time [18].

## **2. Materials and methods**

### **2.1. Participants and Procedure**

The target population comprised 119 high school students in Sichuan province who were at the range of 15-18 years old, all of them are native Chinese speakers. Chinese students of this age normally have a large amount of schoolwork pressure, whether they are studying in a boarding or day school, which makes their social life and interpersonal relationships usually divided into two parts of school and family. The questionnaire will be distributed through the Internet, and participants will fill out anonymously. It will take 8-10 minutes to complete the questionnaire.

### **2.2. Measures**

A ten-question questionnaire is designed for this study, which was written in Chinese considering that all participants were native speakers of Chinese. The first three questions are presented in the form of a scale with 1-5 different levels, which is mainly used to investigate the general state of the relationship between the participating students and their parents. Scientists had indicated that the low levels of parental knowledge and high levels of both parental support and parent-adolescent conflict were associated with the antisocial behaviors through increasing the affiliation with an antisocial peer group [19].

Therefore, in the first question, participants were asked to rate how demanding and intrusive their parents were in their social experiences, with level 1 being none at all and level 5 being mandatory. The next two questions will evaluate the degree of closeness and support of parent-adolescent relationship. In order to make the question expression more specific, some descriptions are added to the scale content of the second question (level 1 is not at all, no communication; level 5 is very intimate, talk about everything).

Question 4 and 5 use the same scenario for parent-child relationship and peer relationship. When the two parties in a relationship have different opinions, what kind of means will participants choose to resolve the conflict and avoid the fierce conflict is the focus of investigation. These two questions are single choice, with five options from A to E, A. Actively communicate and find the most suitable ways; B. Expect the other person to actively communicate with them (more passive); C. Always stick to their own ideas; D. Completely compromise other people's points; E. Others.

After that, participants can select how many close friends do they have in question 6, there are four choices range from 0, 1~3, 3~5 and 5 or even more. The next two scale questions assessed participants' attitudes toward friendship, such as whether they were willing to actively maintain a

relationship and whether they often worried that a relationship would be unstable or have adverse consequences (with level 1 totally disagree, level 5 totally agree). Two remaining single choice questions are used for collecting their gender (female, male or other) and age (15, 16, 17 or 18).

### 3. Results

#### 3.1. Descriptives and correlations

The gender and age of all the participants in the current study are shown in Table 1. In total, 119 results of this questionnaire have been collected, which illustrates that more than 69.7% came from female participants and the remain part includes 26.9 from male and 3.4% from other gender. For age range, forty-three of the 119 were 16 years old, there was only one difference between the number of 15 - and 18-year-olds, 28 and 29 respectively.

Table 1: The gender and age distribution of participants were analyzed

Sex					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	female	83	69.7	69.7	69.7
	male	32	26.9	26.9	96.6
	other	4	3.4	3.4	100.0
	Total	119	100.0	100.0	
Age					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	15	28	23.5	23.5	23.5
	16	43	36.1	36.1	59.7
	17	19	16.0	16.0	75.6
	18	29	24.4	24.4	100.0
	Total	119	100.0	100.0	

Correlations between parent have strict rules on child making friends and worry about the stableness of friendships are presented in Table 2, there was a positive correlation between these two factors,  $r(117)=.264$  ,  $p=.004<.05$ . Generally, it seems that adolescents' misgivings about the uncertainties of friendship are significantly related to the degree of parental interference in their friendships (see Figure 1). The positive trend was also exist when the correlation between the amount of friends and the extent of family support were investigated.  $r(117)=.282$  ,  $p=.002<.05$  (Table 4), and the simple scatter with fit line of this result is shown in Figure 2. Table 3 and table 4 illustrate the frequencies of different methods that the participants chose from when they had conflicts with parents or friends, five options were provided for them—active communication, passive communication, insist on personal opinion, change self to please others and other ways. It is obvious to see that more than 71 students prefer to communicate with their friends actively, by contrast, the number of people who choose the same way in another situation is fewer—just 45. Also, according to the results of the questionnaire, participants are more likely to stick to their own opinions rather than compromise with their family members when they have different opinions. Table 5 reports ANOVA results which indicates the mean square of friend amount is 2.236.

Table 2: The correlation between parental strictness in making friends and participants' concerns about friendship

		Parent have strict rules on child making friend	Worry about the stableness of friendship
Parent have strict rules on child making friend	Pearson correlation	1	.264**
	Sig. (2-tailed)		.004
	N	119	119
Worry about the stableness of friendship	Pearson correlation	.264**	1
	Sig. (2-tailed)	.004	
	N	119	119
**. Correlation is significant at the 0.01 level (2-tailed).			

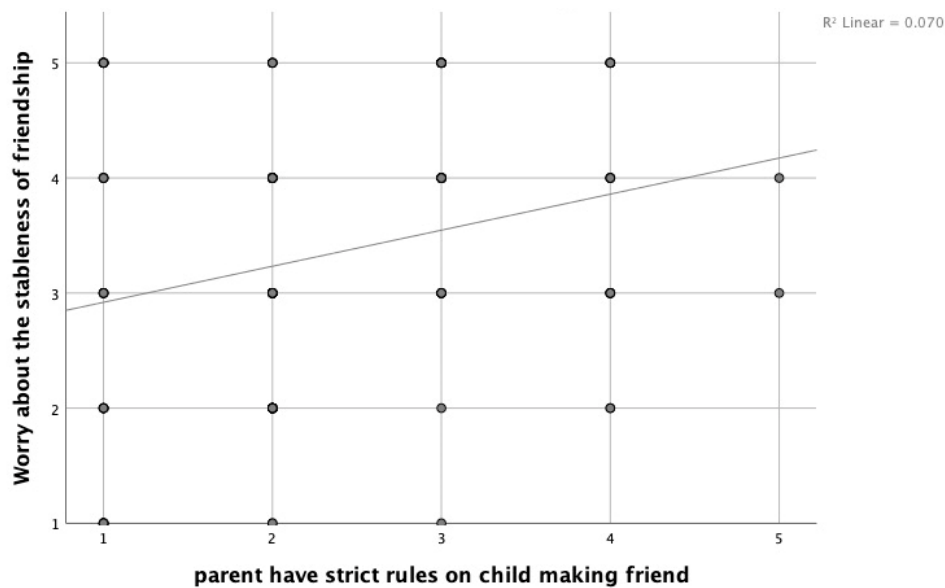


Figure 1: Simple Scatter with Fit Line of Worry about thr stableness of friendship by paren have strict rules on child making friend

Table 3: The correlations between friend amount and family support

		Friend Amount	Family Support
Friend amount	Pearson correlation	1	.282**
	Sig. (2-tailed)		.002
	N	119	119
Family support	Pearson correlation	.282**	1
	Sig. (2-tailed)	.002	
	N	119	119
**. Correlation is significant at the 0.01 level (2-tailed).			

Table 4: The different ways participants resolve conflicts with family and friends

Family Conflict					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Active communication	45	37.8	37.8	37.8
	Passive communication	28	23.5	23.5	61.3
	Insist on personal opinion	25	21.0	21.0	82.4
	Change self to please others	5	4.2	4.2	86.6
	Others	16	13.4	13.4	100.0
	Total	119	100.0	100.0	
Friend Conflict					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Active communication	71	59.7	59.7	59.7
	Passive communication	24	20.2	20.2	79.8
	Insist on personal opinion	8	6.7	6.7	86.6
	Change self to please others	7	5.9	5.9	92.4
	Others	9	7.6	7.6	100.0
	Total	119	100.0	100.0	

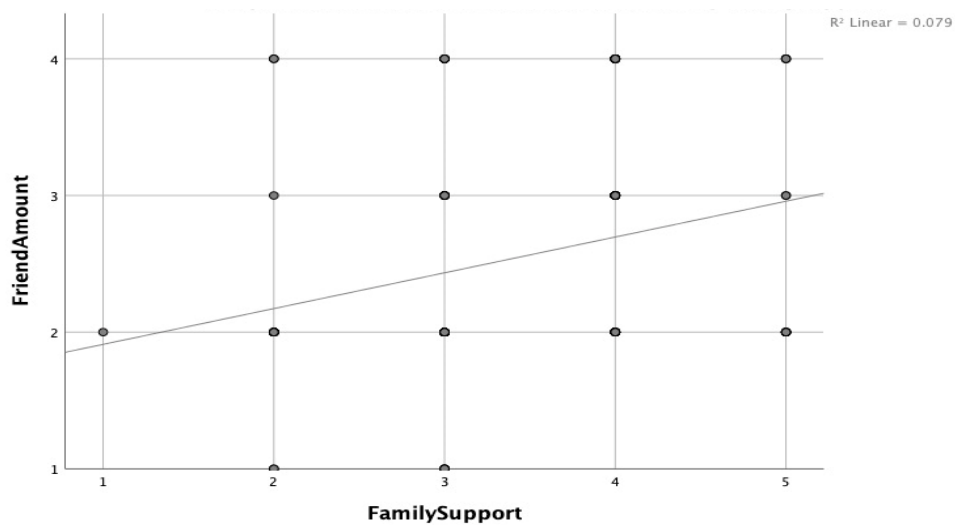


Figure 2: Simple Scatter with Fit Line of FriendAmount by FamilySupport

Table 5: Report anova results (oneway FriendAmount BY FamilySupport)

FriendAmount					
	Sum of squares	df	Mean square	F	Sig.
Between Groups	8.939	4	2.235	3.507	.010
Within Groups	72.641	114	.637		
Total	81.580	118			

#### 4. Discussion

In this study, it shows that family and peers do have a significant impact on adolescents' interpersonal interactions. The research shows that the way that families control and manage adolescents' interpersonal interactions will directly affect the number of friends they make and their cognitive judgments in this aspect. Before the investigation, we predicted the connection between family management and adolescent interpersonal relationship based on some actual situations. After the investigation, the conjecture was confirmed. The data graph clearly and intuitively reflects the positive trend between family constraints and support levels and the number of friends teenagers make and their judgment in making friends. The research shows that beyond higher levels of family control and lower levels of parental support teenagers will show more lack of confidence in friendships and have few friends when in friends -making. In addition, the people we surveyed also showed different attitudes towards family and peers in terms of how they deal with problems which they encounter in relationships. Regarding family, most respondents prefer to have good and positive communication with their peers, but they will be more insistent on their own ideas when facing family. This study explores the factors that affect adolescents' interpersonal interactions. The survey data can confirm and support that our initial guess is reasonable. However, the report also has significant limitations. First of all, the sample size is very small, only more than 100 pieces of data, and the exploration dimension is limited to a small number of daily problems so this means that the data results are not representative of teenagers in China or the world. Second, all information is based on researchers's subjective thoughts which may result a certain bias in what is stated. Third, the views that the researchers state may not take into account some other academic discussions on this aspect. In view of the above limitations, researchers need further research to improve.

#### 5. Conclusion

This study sets out to find the factors that effect adolescents' interpersonal interactions. According to this study, the researchers wants people to pay more attention to the interpersonal communication and mental health of adolescents. To make the results more scientific, the researchers use survey that is made by seven daily questions to collect the data. However, the report also has significant limitations. First of all, the sample size is very small, so this means that the data results are not representative of teenagers in China or the world. Second, all information is based on researchers's subjective thoughts which may result a certain bias in what is stated. Third, the views that the researchers state may not take into account some other academic discussions on this aspect. In future study researchers can have in-depth exploration in the following aspects. First, collecting larger samples can be used to enhance the reliability and generalization ability of the research results. Secondly, more advanced methods and technologies can be applied to collect and analyze data more comprehensively and accurately. Finally, the results of this study can be compared and verified with other related studies to further confirm the validity and reliability of the conclusions.



In conclusion , it is hoped that these research results can have a positive impact on the development of related fields and the progress of society. Also thanks to everyone who contributed to this study.

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Yuqi Wu and Yuzhe Xia contributed equally to this work and should be considered as co-first authors.

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