

## The Mental Health of College Students with Left-Behind Experience

Zhang Songzhan<sup>1</sup> and Wu Ran<sup>2</sup>

*Dept. of Preschool Education, Changsha Normal University, Hu Nan, China*

*<sup>1</sup>zhangsz289@126.com*

### **Abstract**

*To understand the mental health status of “college students with left-behind experience” in colleges and universities, its influencing factors is analyzed, provide countermeasures to improve the mental health of “college students with left-behind experience”, and provide references for the prevention of mental health problems of left-behind children in the future. 1,650 college students from three universities in a certain city were surveyed using the SCL90 scale and stratified cluster sampling method. The data was analyzed statistically using SAS9.1 statistical software. Multivariate analysis shows that the four variables of interpersonal relationship factor, hostility factor, compulsive factor, and teacher-student relationship are influential Main factors affecting the mental health of college students with left-behind experience. Conclusion The survey showed that the left-behind population had a high positive rate of psychological problems, suggesting that left-behind experience is the main factor affecting their mental health. Gender, college type, and birthplace also have a certain impact on 10 factors, suggesting that future college students will have psychological education. Attention should be paid to this group of college students with left-behind experience, and to explore the impact of left-behind background on their mental health and improve their health.*

**Keywords:** *Left-behind, College student, Mental health, Social support*

### **1. Introduction**

Since the 1980s, with the continuous acceleration of China’s reform and opening up and urbanization process, the surplus rural labor force has been transferred to cities on a large scale. Some of these “left-behind children” born in the late 1980s and early 1990s were fortunate to continue their studies and become college students with left-behind experience. College students who have left-behind experience, that is, those students whose parents or both have been away from their hometown for a long time before going to college, go out to work, do business, or study, and have separated from them for one year or more [1][2]. This research investigates the mental health status of college students with left-behind experience by investigating college students with left-behind experience in three types of universities in a city, analyzes its influencing factors, and proposes targeted interventions for mental health education of college students with left-behind experience [3][4]. It also proposes targeted interventions for the mental health problems of left-behind children in the future.

### **2. Research Object and Method**

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Taking a coastal city in Shandong Province as a research point, the stratified cluster sampling method was used to select the college students in the three universities in the city for investigation. The three universities were comprehensive universities, normal universities, and medical universities. For some freshmen to seniors of majors of each college, anonymous questionnaire surveys are carried out in class units, with uniformly trained professionals serving as investigators. The survey process uses uniform methods and guidance questionnaires to be distributed uniformly, answering on the spot, unified recovery and verification.

A total of 1,650 questionnaires were distributed, and 1,605 valid questionnaires were recovered, with an efficiency of 97.27%. Among them, 312 college students had left-behind experience, with a positive rate of 19.44%. The SCL-90 symptom self-assessment scale is used. SCL-90 compiled by the famous American psychologist Derogatis. 90 evaluation items, each item is estimated by the patient from none (1) to extreme (5). The scale includes somatization, strong pursuit syndrome, interpersonal relationships, depression, anxiety, hostile terror, paranoia, psychosis, and other 10 symptom dimensions or factors. Double data entry, collation and logical error detection of data were used for statistical analysis through Epidata software, statistical analysis using SAS9.1 statistical software, analysis and comparison of factors affecting mental health using t test, rank sum test.

### **3. Result**

#### **3.1. Population distribution**

1605 college students from three different types of universities (comprehensive, normal, medical) were selected, of which 312 students with left-behind experience”, the positive rate was 19.44%. the positive rate for comprehensive universities was 25.93%, the positive rate for normal universities was 17.67%, and the positive rate for medical universities was 17.01%. Among the 312 university students with left-behind experience, male and female account for 39.7% and 60.3%. 79.8% of them are from rural areas, and 64.7% are non-only children; from the perspective of grades, most students are from lower grades, of which freshmen account for 34.6%, sophomores and juniors account for 26.6%, 29.5%. the proportion of senior students is relatively small, accounting for 9.3%, which is related to the choice of the survey object.

#### **3.2. Left-behind background and mental health status**

##### **3.2.1. Background of left-behind research**

This study set up several projects for left-behind students’ left-behind experience, and investigated the self-harmony and evaluation, emotional and social support of left-behind students.

From the perspective of self-harmony and evaluation, 38.5% of the 312 surveyed college students with left-behind experience think that their left-behind experience has changed their character. 66.7% of them think that this character change is positive. Only 33.3% of students think it’s negative. From the experience of left-behind college students who care about the surrounding students, 22.8% think their neighbors, relatives, friends, teachers and classmates care about them, and 51.6% think they are more negative concerned about themselves, 25.6% think they are little, unconcerned or indifferent to them. From the perspective of emotional and social support in college, 53.5% think they have a normal relationship with teachers and

students in college. 9% students think that the relationship between teachers and students is not good or even bad. From the “Do you have many friends at college” project, 53.5% of students think they have ordinary friends in college, 34.6% think they have many friends in college, and 11.8% of students think that they have few or even no friends in college, and 20.8% of them express they have no close friends in college. In “Who do you usually have problems communicating with?”, On 63.8% of students choose to classmates or friends, 23.7% of students choose to talk to their parents, while only 1.6% choose to talk to a counselor teacher, himself a man keep our noses to solve accounted for 7.1%

### **3.2.2. Mental health status of college students with left-behind experience**

Among the left-behind students, the average score of the evaluation factors of the mental health scale was 153.86 points, and the number of students with a factor score of more than 160 was 111, accounting for 35.58% of the left-behind students. The test students may have some degree of psychological disorder. The total score of the factor was divided by the number of questions in the factor to calculate the average score of each factor. The average score of the obsessive-compulsive disorder factor is the highest at 1.95, followed by the interpersonal relationship factor, depression factor, and hostility factor. Combined with the criteria for determining the positive rate of the scale, the top three positive detection rates of the left-behind population are the compulsive factor, interpersonal factor, and hostile factor.

### **3.2.3. Comparison of mental health status of college students with left-behind experience**

(1) Comparing the psychological status of college students with left-behind experience and those without.

In this study, the differences between the 10 factors of SCL-90 of college students with left-behind experience and non-left-behind students were compared. From the comparison of the ten factors of somatization, obsessive-compulsive state, interpersonal relationships, depression, banana worry, hostility, terror, paranoia, psychosis, and other (reflecting sleep and diet). The differences between the factors of the two populations are statistically significant Significance (all P values are less than 0.01), suggesting that “left-behind” is the influencing factor of college students’ mental health, and the scores of various factors of college students with left-behind experience are higher than those of college students with no left-behind experience.

(2) Comparison of the factors influencing the psychological health of college students with left-behind experience.

This study compares the differences between college types, genders, and student origins that affect the mental health of college students with left-behind experience. From the perspective of college type, the differences between the three factors are statistically significant ( $P < 0.05$ ). Among them, the three factors of somatization, anxiety and fear are the highest in medical universities. For the other factors, all comprehensive colleges have the highest scores. From the comparison of the scores of different factors between the genders, the differences between the genders of each factor are statistically significant. The average score of each factor is less than 2 points, and the boys score are both higher than girls as shown in [Table 1]. However, from the perspective of whether they are only children, there is no difference between the factors. From the perspective of the student origins, the factors of somatization, interpersonal relationships, depression, anxiety, and paranoid factors are

different. There are differences between them, the mental health score of students from rural areas is higher than that of urban students, see [Table 2] for details.

(3) Mental health multi-factor analysis of college students with left-behind experience

Take the total score of the SCL-90 scale as the dependent variable (definitely the total score of the factor is more than 160 points, the definition is positive for psychological problems, the value is 1.

Table 1. Comparison of scores of various factors between genders

Factors	Boys( $\bar{X} \pm S$ )	Girls( $\bar{X} \pm S$ )	<i>t</i>
Somatization	1.36±0.58	1.14±0.33	6.953*
Obsessive-compulsive disorder	1.87±0.72	1.75±0.58	4.733*
Interpersonal relationship	1.73±0.69	1.57±0.54	3.907**
Depression	1.62±0.68	1.54±0.51	4.175**
Anxiety	1.56±0.66	1.45±0.48	5.125*
Hostility	1.61±0.69	1.47±0.53	4.275*
Terror	1.54±0.69	1.43±0.48	4.873*
Paranoid	1.64±0.67	1.48±0.46	4.797**
Psychotic	1.52±0.69	1.38±0.45	5.183*
Other	1.62±0.67	1.45±0.47	4.773**

\*\*:( $p < 0.01$ ), \*( $p < 0.05$ )

Table 2. Comparison of scores of student factors between student origin area

Factors	Rural( $\bar{X} \pm S$ )	Urban( $\bar{X} \pm S$ )	<i>t</i>
Somatization	1.20±0.45	1.16±0.40	2.405*
Obsessive-compulsive disorder	1.77±0.61	1.77±0.66	1.161*
Interpersonal relationship	1.64±0.62	1.55±0.56	2.241*
Depression	1.55±0.57	1.52±0.54	2.377**
Anxiety	1.47±0.58	1.42±0.52	2.164*
Hostility	1.55±0.57	1.51±0.57	1.367**
Terror	1.46±0.55	1.41±0.54	1.616*
Paranoid	1.58±0.54	1.43±0.56	2.026**
Psychotic	1.44±0.57	1.23±0.52	1.433*

Other	1.50±0.57	1.47±0.58	0.819**
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\*\*:( $p < 0.01$ ), \*:( $p < 0.05$ )

And the total score of the factor is less than 160 points, the definition is negative for the psychological problems, With a value of 0), using demographic characteristics variables, left-behind background items, coercion factors, interpersonal relationship factors, and hostile factors as independent variables, a series of treatments were performed according to the requirements of model analysis (Combination and assignment of categorical items in categorical attribute variables, discretization of numerical variables), the forward selection method is used to filter the independent variables ( $F_{in}=0.05$ ) to construct a logistic regression model, and finally 4 variables are retained in the model, which are teacher-student relationship, compulsion factor, interpersonal relationship factor, and hostility factor. From the standardized regression coefficients, we can know that the order of the influence of these variables on the total score of mental health of college students who have left behind is interpersonal relationship factor, hostile factor, compulsive factor, and teacher-student relationship. Likelihood ratio test  $G=93.287$ ,  $P < 0.05$ , the model has statistical significance [Table 3].

Table 3. Logistic regression analysis of mental health of college students with left-behind experience

Variable	Standardized regression coefficient	Regression coefficient	Wald $\chi^2$	OR
Constant	-4.532	-7.771	17.670	
Teacher-student relationship	0.860	1.214	6.894	2.618
Obsessive-compulsive disorder	1.431	2.640	15.357	10.234
Interpersonal relationship	2.167	4.124	27.436	24.376
Hostility	1.957	3.094	18.247	13.152

#### 4. Discussion

(1) Focus on college students with left-behind experience, enhance social support and harmonious interpersonal relationships

In this study, 38.5% of students believe that their personality has changed, 66.7% of these 38.5% think that this personality change is positive, and only 33.3% think it is negative. Qualitative interviews of college students also found this result, which is different from the results of related studies. Similar studies mostly have preconceived suspicions, and more attention is paid to the negative effect of left-behind experience, and little attention is paid to its positive effect. From the perspective of emotional and social support, most students think that the students around them care more about themselves and have intimate friends around them. They often talk to friends or classmates, and 23.7% choose to talk to their parents, and 7.1% of the students choosing to solve problems by themselves. It's a great influence on subjective well-being, psychological pressure, and mental health. In response to such problems, college counselors, teachers or parents should pay attention to correcting their emotions, guide them to take a proactive response to face negative events in life, try to avoid and reduce the backlog of bad emotions, encourage students establish a good family-college

communication mechanism actively. The information about the background left behind should be further explored. Social support has the role of reducing stress and is an external resource that can be used during the stress process. College students, especially those with left-behind experience, are under the influence of psychological support, and establish a complete social support network [5].

(2) Strengthen intervention to improve mental health

According to the criteria for determining the positive detection rate of SCL-90, among the left-behind population, the positive detection rate of the mental health problem among college students with left-behind experience is 35.58%, which is higher than the level of domestic college students, suggesting that these students have positive symptoms. The test person may have a certain degree of psychological obstacles, which is higher than the level of non-left-behind college students, suggesting that “left-behind” is an important factor affecting mental health. When conducting mental health education for college students, focus on those with left-behind experience group of college students. According to the criterion that any one of the 10 factors has a score of  $\geq 2$  to be positive for psychological well-being, among the college students with left-behind experience, the positive detection rate of 10 factors among the top 3 are interpersonal relationship sensitive factors, Obsessive-compulsive symptoms factor and “other”, which is basically consistent with the research results.

In the analysis of influencing factors, from the perspective of gender, the differences between the scores of the 10 factors are statistically significant, and the scores of boys are higher than those of girls. Consistent with the situation of general college students, the research results and the psychological counseling results of teacher Zhang Lihua [6]. The left-behind experience has a positive effect for girls, which is due to the early maturity of girls. In the early period of staying behind, it is easier to take on the role of parents and to deal with and cope with the incident independently. We can find the freshmen and senior students' scores on somatization and compulsiveness is higher, which is related with freshmen entering the university with new environment, and the pressure of graduates and job hunting. The self-harmony is poor. This is due to the special environment interpersonal relationship, coping style, etc. Good interpersonal relationships and positive and flexible coping styles have a certain impact on their self-harmonious mental health. Therefore, students of different periods should be helped to change roles and adapt to the new environment and social psychology, establish good interpersonal relationships, and establish good life-practice coping styles [7][8]. The origin factor has no effect on the psychology of college students with left-behind experience. Although most of the college students with left-behind experience come from rural areas, with the acceleration of the urbanization process, the continuous improvement of the level of rural economy and education, and the gradual improvement of the education quality of rural students have little effect on the mental health differences of the group of college students who have left behind.

The results of this study show that left-behind experience is the main influencing factor of college students' mental health. This influence is both negative and positive. This is an important finding of this study, which also reminds us that undergraduates, especially those in the process of mental health education of left-behind college students, attention should be paid to and play a positive role in left-behind experience, while attaching importance to the mental health of fragile women, special attention should be paid to the impact of left-behind experience on the mental health of boys, and the education of only children. Improve the social support network structure, take the initiative to establish a family-college communication mechanism, especially to play the role of college counselors, strengthen the

mental health education of college students, pay attention to the life and mental health problems of college students with left-behind experience, and establish good trust, communication relationship.

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