Research Article

Correlation between Parenting Style by Personality Traits and Mental Health of College Students

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At present, the mental health of college students in China is relatively poor. This work is aimed at analyzing the correlation between family parenting style and college students’ mental health and providing a realistic basis for improving the mental health level of college students. Firstly, this work detailed the family parenting style, the influencing factors of family parenting style, and the theoretical basis of personality traits. Then, 300 college students in Anhui Province were selected as the research objects who answered the questionnaire on parenting style and the Revised Eysenck Personality Questionnaire Short for Chinese. Finally, statistical software was used to visually analyze the personality characteristics of college students, the overall situation of mental health, the impact of parents’ education on college students’ mental health, and the family parenting style of college students. According to the score of anxiety, the top 27% of the research objects are classified as the high-anxiety group, while the bottom 27% are classified as the low-anxiety group. The results show significant gender differences in the psychoticism and neuroticism dimensions of personality traits ($P < 0.05$). Besides, the educational level of parents has a certain influence on the mental health of college students, and the influence of mothers is even greater. College students feel more rejection, emotional warmth, and overprotection from mothers. Meanwhile, college students with mothers of different educational levels have significant differences in the scores of various dimensions of the mother’s rearing style. However, there is no difference in this respect among college students with fathers of different educational levels. The average scores of emotional warmth from parents of the high-anxiety group are significantly lower than those of the low-anxiety group ($P < 0.001$). Moreover, the high-anxiety group has much lower average scores than the low-anxiety group in severe punishment, overprotection, and rejection of father and excessive interference, severe punishment, and rejection of mother ($P < 0.001$). There is no significant difference in their average scores of the partiality of father or mother between the high-anxiety group and the low-anxiety group. The results show that the parenting style based on personality traits has an impact on college students’ mental health. This signifies that parenting style based on personality traits has an effect on college students’ mental health.

1. Introduction

With the deepening of national education system reform, public attention has risen in higher education. Ge proved that employees’ psychological safety was significantly correlated with their job involvement [1]. The same goes for college students, who need professional knowledge and skills as well as a healthy and positive attitude. Oswalt et al. showed that colleges and universities placed considerable value on the cultivation of students’ comprehensive quality to help students better adapt to the changing social development [2]. Sun also believed that teachers should emphasize student-centered learning to enable students to give full play to their subjective initiative to promote students’ innovative thinking [3]. With the continuous development of higher education, the number of university students is increasing. Their mental health status not only affects social harmony and stability but also plays an important role in the quality
of talent training and the improvement of the future overall competitiveness [4]. However, college students’ mental health is seriously affected by their low social competitiveness and high employment pressure [5]. Previous research showed that among many factors affecting mental health, individuals’ subjective perception of their social class, namely, subjective social status, had a great impact on their psychological development. Besides, self-esteem, as one of the important indicators of individual mental health, played an important role in personality development and socialization. Mental health was also affected by parenting education style [6]. Studies proved that college students had a high incidence of psychological problems [7]. General survey data on psychology indicated that the incidence was more than 30% of psychological problems in different colleges and universities [8]. Malignant incidents caused by various psychological problems among college students have also been frequently reported. Various phenomena prove that the mental health education of college students has become the primary task of higher education [9].

An individual’s physical and mental development is determined by the combined influence of congenital heredity and acquired environment. In the complex acquired environment, family environment is a more direct, deeper, and longer influencing factor. In the interaction with family members, individuals gradually learn wisdom and form self-cognition and begin to view surrounding things as an independent individual [10]. It can be said that family upbringing is the starting point of individual psychological adaptation. Parenting style is the comprehensive embodiment of parents’ concept and behavior or their behavior tendency when they educate their children. The parenting style of father and mother is different from each other, but there are similarities reflected in emotional warmth, partiality, overprotection, rejection, and severe punishment, which is proved by many scholars. Ladge and Little showed that a person’s physical and mental development often had a family imprint. Furthermore, clinical psychologists believed that family is the root of all psychological symptoms [11]. Taralynne et al. showed that college students’ self-control ability was negatively correlated with tolerance from the same sex parent. For instance, daughters who had authoritative mothers had higher levels of self-control [12]. Horzum et al. conducted the analysis on domestic research status and found that there were gender differences in parental style of male and female college students. Male college students had significantly less emotional warmth of parents at home than female college students [13]. Saefudin and Setiawan proved that a good parenting style was conducive to cultivating college students’ mental health education work. Firstly, a detailed analysis was conducted on the family parenting style, the influencing factors of family parenting style, and the theoretical basis of personality traits. Then, 300 college students in the Anhui Province were selected as the research objects. The questionnaires on parenting style EPQ-RSC (Revised Eysenck Personality Questionnaire Short for Chinese) and Ryff Psychological Well-being Scale were distributed to them. Finally, statistical software was utilized to visually analyze the personality characteristics of college students, the overall situation of mental health, the impact of parents’ education on college students’ mental health, and the family parenting style of college students. The research reported here plays a vital role in the psychological growth of college students under family education and provides references for the related research on family education and psychological health of personality traits. The innovation of this study is to analyze the correlation between college students’ mental health and family upbringing and deeply research the family parenting style through the personality traits of college students.

2. Theoretical Basis and Research Method

2.1. Theoretical Basis

2.1.1. Connotation of Parenting Style. Parenting style is a specific and stable interaction mode formed during parent teaching and raising their children, including overprotection and emotional warmth shown by parents in the process of teaching [16]. Different researchers emphasize different parenting styles, which forms different parenting style theories, as shown in Table 1.

The parenting style denotes some basic behavioral characteristics of parents in raising children and the beliefs, attitudes, and values behind these behavioral characteristics. These behavioral characteristics are but interrelated as a structure rather than isolated from each other, because they are derived from a set of specific values and beliefs. According to different parenting styles, Elder believes that parental leadership is a single dimension of parenting style. On this basis, he is the first to divide parenting styles into seven types: dictatorship, authority, democracy, equality, indulgence, and neglect. Baumrind regards the parenting style as the most effective way for parents to implement family socialization. He believes that the dimension that affects parenting style is parental authority and divides it into autocratic authoritative, enlightened authoritative, and laissez-faire. Williams divided children’s perceived parenting styles into two levels: concern and authority. He divided them into four parenting styles according to their levels: high-authority and high-concern, high-authority and low-concern, low-authority and high-concern, and low-authority and low-concern. After analyzing parent-child interaction data, Schaefer proposed two dimensions of autonomy-control and caring-hostility, divided their parenting styles into four quadrants, and formed fourteen ring patterns to explain the differences in parenting styles.

2.1.2. Influencing Factors of the Parenting Style of College Students. Family is the main growth environment for college
| Different theories          | Different types                                                                                                                                                                                                 |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Psychoanalytic theory      | This theory is strictly unidirectional, focusing on the emotional relationship between parents and children, believing that the characteristics of parents play a decisive role in the parent-child relationship and emphasizing the important impact of such emotional relationship on children’s mental health and social development. The theory emphasizes that in family life, children are influenced by their parents, but in turn the children influence the parents who interact with them. During the interaction, children develop their own personalities. This theory overemphasizes the dependence of children on their parents and believes that children cannot exist independently of the social relations in which they live, while neglecting that children are also individuals with independent individualities. |
| Interaction theory         | The theory emphasizes that children learn and accept norms of behavior and social concepts through their parents and then internalize these to achieve their own growth and development. According to this theory, it is the best way for parents not to interfere with their children’s choices. |
| Attribute theory           | The interaction between people and the environment mainly focuses on the mutual relationship and influence within the family system. The behavior of parents and the behavior of children are interactive. |
| Ecological systems theory  | The theory holds that reinforcement and learning, rather than parenting, is the main way to achieve children’s growth and development and emphasizes that if children are to develop, they must be promoted by parental supervision, rewards, and punishments. |
students after birth, which has significant influences on college students [17]. Due to various factors, each college student’s family has its own unique parenting style, such as authoritarian parenting, permissive parenting, and authori-
Some scholars believe that parenting style is a combination of parenting concepts, parenting behavior, and their feelings for children, which reflects the essence of parent-child communication without changing with situation changes [18]. Some scholars also believe that the parenting style is the comprehensive embodiment of parents’ concepts and behaviors in educating children, as well as their behavioral tendencies in rearing children [19]. In summary, the parenting style includes three aspects of cognition, behavioral tendency, and emotional pattern. Here, the parenting style of college students is defined as the relatively stable style of parenting concepts, attitudes, emotions, and other factors shown by parents in the process of educating college students. Figure 1 displays the factors influencing family parenting style.

The first influence factor in Figure 1 is the characteristics of parents. Some scholars proposed that mothers with lower education were more likely to indulge, oppress, punish, and...
neglect children than mothers with higher education who advocate democratic upbringing [20]. Other researchers believed that older parents treated their children in a relatively effective way, while younger parents treated their children in a simple and rough manner [21].

The second influence factor is the characteristics of children. Parents’ parenting style is influenced by children’s behavioral characteristics and temperament types. Mothers of hyperactive children have more guidance and negativity than mothers of normal children. Children with difficult personalities are more likely to have conflicts with their mothers, resulting in increased control of their mothers over them [22]. Infants’ personality and behavioral characteristics influence their mothers’ educational style. For example, the mother is more likely to show tolerant behavior and democracy with a higher level of the infant’s adaptability and activity. However, the higher tendency or the more extreme reaction of children will aggravate the mother’s autocracy towards children [23, 24].

The third influence factor is the family income level. Low-income parents adopt more rigid behavior standards, ignoring their children’s emotional reactions. Parents with higher income adopt more scientific education methods and communicate and interact with their children more often, forming a harmonious family atmosphere. Middle-income parents tend to take a strict education approach, expecting their children to acquire qualities such as order and responsibility, and to be more tolerant of their children’s emotional reactions [25, 26].

The last influence factor is social culture. Parents in different countries have great differences in their attitudes towards their children treating others. For example, Japanese emphasizes collective values, and parents encourage and guide children to attach importance to others. However, in the United States and France, parents emphasize personal values with little reaction to children’s view of others [27, 28]. There are also differences in parenting styles between urban and rural areas. Urban fathers show more affection and warmth towards their children, while urban and rural mothers show no significant difference in their emotional treatment of their children. However, urban mothers tend to protect, disturb, deny, and punish their children more [29, 30].

2.1.3. Personality Traits of College Students. The theory of personality trait originated in the 1940s in the United States, and the main representatives are American psychologists Gordon Willard Allport and Raymond Bernard Cattell [31]. Figure 2 illustrates the theory of personality trait.

According to the theory, traits are the basic characteristics that determine individual behaviors, the effective constituent elements of personality, and the basic unit commonly used to evaluate personality. In modern personality psychology, the theory of personality trait defines traits as the neural characteristics of individuals, which have the ability to dominate individual behavior and make individuals give consistent responses in a changing environment [32, 33]. However, the theory of personality trait originated from the typology theory about personality differences. Typology theory usually describes personality according to a certain characteristic or trait of individuals [34]. For example, if someone is obsessed with power, he is said to be a power-oriented person. If someone can always consider the good side of problems, he is considered to be an optimistic person [35].

For college students, personality traits refer to a tendency to maintain a relatively consistent behavior in different times and different situations. It is also a psychological structure that can trigger college students’ behavior or actively guide
students’ behavior, enabling them to make the same response to different kinds of stimuli [36]. In Eysenck’s theory of personality trait, extroverts are considered to be sociable, active, aggressive, assertive, arbitrary, joyful, dominant, passionate, and adventurous [37]. Neurosis is associated with negative emotions such as fear, anxiety, anger, and sadness. The theoretical model of Gray and Newman also showed that the introversion and extroversion of personality traits determined an individual’s tendency to positive and negative emotions. Besides, the level of neurosis determined an individual’s reaction and adaption orient to emotions [38]. Therefore, it is necessary to study the correlation between the parenting style and mental health of college students and analyze their personality traits.

2.2. Research Method

2.2.1. Research Object. A total of 300 freshmen from Anhui Agricultural University (Agriculture and Forestry College) were randomly selected as the research subjects. The respondents were between 18 and 20 years old, including 199 males and 101 females. Among the 300 new students, 150 were from Anhui, 30 from Shaanxi, 29 from Hunan, 21 from Shandong, 19 from Henan, 19 from Sichuan, ten from Hebei, ten from Qinghai, nine from Gansu, and three from Jilin Province. Electronic questionnaires were distributed through the WeChat group and class group network, and a 7-day questionnaire survey and data analysis were carried out. A total of 300 questionnaires were distributed, 286 valid questionnaires were recovered, and the effective rate of questionnaire recovery was 95.3%.

2.2.2. Measurement Instrument. Firstly, basic family information measurement is used for basic information of students’ parents, such as age, occupation, education level, and family location. The s-EMBU-c (Short-form Egna Minnen AV BarnDOM Uppfostrant for Chinese) is adopted to investigate the parenting style of the research object, which
The measurement results of Cronbach α are shown in Table 3.

Ry et al. [41] to make it suitable for the Chinese population. According to Harman’s single-factor test results, the explanation percentage of the first factor is 21.525% (Kaiser-Meyer-Olkin test index is 0.955; Bartlett spherical test index is 132460.78, P < 0.001), and the total explanation percentage is 66.17%. The first factor has neither major variations nor only one factor, indicating that there is no serious common method bias between college students’ psychological well-being and personality traits.

IBM SPSS (Statistical Product and Service Solutions) Statistics 26.0 is used for data processing. Then, visual analysis of the results is performed using Origin 2018 64Bit. In the data analysis of parenting style, F-test (the variance ratio test) is first performed on the variables, and Student’s t test is conducted in pairs on variables of unequal variance.

### 3. Results and Discussion

#### 3.1. The General Situation of College Students’ Personality Traits

Data analysis is conducted on the revised valid questionnaires. Descriptive statistics of personality traits are shown in Table 3.

In Figure 3, the maximum value of psychoticism measurement is 35, while the minimum value is 0, with the mean of 2.21 and the standard deviation of 1.58. The maximum value, minimum value, average value, and standard deviation of introversion-extraversion are 35, 0, 6.95, and 2.97, respectively. The maximum of neuroticism is 35, and the
minimum is 0, with the average value of 5.95 and standard deviation of 3.46. The maximum, minimum, and mean and standard deviation of concealment are 35, 0, 5.01, and 2.37, respectively. It shows that the research objects, whether males or females, have a slightly high score in introversion and extroversion, neuroticism, and concealment and a slightly low score in psychoticism. Therefore, research objects have their particularity in personality traits.

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**Figure 9:** Comparative results of parenting styles of college students of only-child and non-only-child family: (a) mean and standard deviation of descriptive statistics; (b) t values and P values for descriptive statistics; 1, 3, 5, 7, 9, and 11: boys; 2, 4, 6, 8, 10, and 12: girls; A: father’s rejection; B: father’s emotional warmth; C: father’s overprotection; D: mother’s rejection; E: mother’s emotional warmth; F: mother’s overprotection.

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**Figure 10:** Comparison results of parenting styles of fathers with different education levels: (a) mean and standard deviation of the LSD test; (b) F value of the LSD test; A: father’s rejection; B: father’s emotional warmth; C: father’s overprotection; 1: above junior college; 2: high school/technical secondary school; 3: junior high school.
The comparison between personality traits is shown in Figure 4. Figure 4 shows significant gender differences in psychoticism dimension of personality traits ($P < 0.01$). The score of boys is significantly higher than that of girls in psychoticism. There are also significant gender differences in neuroticism ($P < 0.05$), with a significantly higher score for girls than that of boys. However, there is no significant gender difference in concealment and introversion-extroversion.

3.2. The Influence of the Education Level of Parents on College Students’ Mental Health. The influence of fathers’ education level is shown in Figure 5 on college students’ mental health. ($P$ means that the statistical result is the same as the actual observation data, which is a decreasing index of the reliability of the result. The smaller the $P$, the more significant the result.)

According to Figure 5, the father’s education level has a certain effect on the mental health of college students. In terms of psychological happiness, the high education level of the father improves children’s control ability of the environment, goal and future planning, and self-affirmation. In the psychological symptoms of students, those show certain advantages, whose fathers have high school education or
technical secondary school education level. Their total scores of SCL-90 (Symptom Checklist-90) and somatization are much lower than those whose fathers have middle school education level. This indicates that college students whose fathers have higher education level have better positive psychological function and self-understanding. Besides, college students whose fathers have a low level of education tend to suffer from psychological problems such as anxiety and somatization.

The influence of mothers’ education level is shown in Figure 6 on college students’ mental health.

As shown in Figure 6, the mother’s education level also affects the mental health and psychological symptoms of college students. In terms of psychological well-being, students whose mothers attended secondary schools score low except in autonomy and personal growth. Students whose mothers have junior college education background get high scores in all factors. In terms of psychological symptoms, college students whose mothers have received secondary school education score the lowest in all factors except terror with the minimal total score. On the contrary, college students whose mothers have received a bachelor’s degree or above score higher in somatization, depression, psychosis, and interpersonal relationship sensitivity. College students whose mothers have college education or above have lower scores on obsessive-compulsive, antagonism, and paranoia, which indicates that mothers’ education level has a profound influence on their children.

3.3. Statistical Results of Parenting Style of College Students.

The family parenting styles of college students are divided into six categories. Firstly, the basic situation of college students’ parenting style is statistically analyzed. The results are shown in Figure 7.

In Figure 7, mothers score higher than fathers in three dimensions of rejection, emotional warmth, and overprotection, indicating that college students feel more rejection, emotional warmth, and overprotection from mothers.

Secondly, gender differences in college students’ family parenting styles are analyzed. The results are shown in Figure 8. From Figure 8, boys score higher than girls in all dimensions of parental rearing style. Among them, the scores of boys are significantly higher than those of girls in the dimensions of father’s rejection, father’s emotional warmth, mother’s emotional warmth, and father’s overprotection (P < 0.01). There is no significant gender difference in the scores of mother’s rejection and overprotection among college students.

Then, the parenting style comparison is shown in Figure 9 between only-child family and non-only-child family.

In Figure 9, the scores of students of only-child family are higher than those of non-only-child family in all dimensions of parental rearing style. There are significant differences between scores of the two types of students in the dimensions of father’s rejection, mother’s emotional warmth, father’s overprotection, and mother’s overprotection (P < 0.05), without significant difference in the dimension of the father’s emotional warmth and the mother’s rejection.

Finally, the differences are analyzed in parenting style of college students with parents with different education level. Figure 10 shows the differences in parenting style of college students with fathers with different education levels.

According to Figure 8, there is no significant difference between the scores of college students with different fathers’ education levels in each dimension.

Figure 11 shows the differences in parenting style of college students with mothers with different education levels.

![Figure 12: Overall situation and difference of mental health of college students: (a) descriptive statistics of mental health in general; (b) differences in different dimensions of mental health; 1: self-affirmation; 2: nondepression; 3: mental health; *P < 0.05.](image-url)
From Figure 11, college students with different mother’s education levels have significant differences in scores of various dimensions of mother’s rearing styles. After the LSD (least-significant difference) test, college students whose mothers are of high school education have significantly higher scores on the dimensions of mother’s rejection and overprotection than those whose mothers’ education level is above junior college or below junior middle school ($P < 0.05$). Students whose mothers’ educational level is above junior college score significantly higher on mother’s emotional warmth than those whose mothers’ educational level is high school/technical secondary school or junior high school ($P < 0.01$).

3.4. Influence of the Parenting Style on College Students’ Mental Health. The overall situation and differences are analyzed of mental health of research objects, as shown in Figure 12. There is no significant difference between the scores of boys and girls in the total score of mental health and in the two dimensions of self-affirmation and nondepression. However, there is significant difference between the scores of boys and girls in the dimension of nonanxiety ($P < 0.05$).

According to the score of anxiety, the top 27% of the research objects are classified as the high-anxiety group, while the bottom 27% are classified as the low-anxiety group. The difference between the high-anxiety group and the low-anxiety group is shown in Figure 13.

In summary, different education levels of parents will produce different parenting styles. The results of Keles et al. showed that anxiety was an important factor affecting the mental health level of college students [42]. The results of the questionnaire survey also show that parenting styles have a significant correlation with the mental health level of college students. This suggests that more attention needs to be paid to the parenting style during the cultivation of college students’ mental health, due to the effect of the parenting style and education level of parents on personality traits and mental health of students. Besides, parents should provide more warmth and understanding for their children. Fathers should reduce severe punishment, excessive protection, and rejection of children. Mothers should reduce excessive interference, severe punishment, and rejection of children. Only reasonable parenting styles can have a positive impact on the mental health of college students.

4. Conclusion

Based on the theoretical basis of parenting style, influence factors of parenting style, and personality traits, a questionnaire survey is conducted on 300 college students in Anhui Province to measure their parenting style, personality traits, and psychological well-being. Significant differences are found between genders in college students’ personality traits. Parents’ education level has a certain influence on college students’ mental health, which is mainly manifested in the significant difference between different genders in the dimension of nonanxiety. Different parenting styles also lead to different mental health levels of only children and non-only children. The different educational levels of mother have a great influence on the mental health of college students, and the different parenting styles of parents have a great influence on the mental health level of college students.
There still exist some shortcomings in the experiment. The proportion of subjects is unbalanced in gender and other aspects. Also, the analysis dimension of influence factors of parenting style is relatively narrow. Thus, there is a certain impact on the wide applicability of the research results. Future research is expected to break through the above limitation to make the research results more comprehensive.

**Data Availability**

Raw data were generated and derived. Data supporting the findings of this study are available from the corresponding author on request.

**Conflicts of Interest**

The authors declare that they have no conflicts of interest.

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