# Characteristics and Correlation between Positive Personality and Socially Responsible Leadership of Medical College Students

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*Abstract*—This paper discusses the characteristics of positive personality and socially responsible leadership of medical college students and the relationship between the two, so as to provide the theoretical basis for improving the basic psychological quality of contemporary college students and cultivating excellent talents in the new era. By using the positive personality inventory and social responsibility leadership inventory of college students, 2848 college students were selected and investigated by group survey. The results showed that the scores of positive personality and social responsibility leadership of medical college students were both on a high level. There was a significant positive correlation between the total score of positive personality and the total score of socially responsible leadership (r=0.693, p<0.01). Positive personality can positively predict socially responsible leadership (t=51.286, p<0.001). colleges and universities can enhance students' social responsibility leadership by improving their positive personality.

*Keywords—College students; Positive personality; Socially responsible leadership; Relevance*

## I. INTRODUCTION

In 1999, Seligman put forward the concept of a positive personality. Positive personality is a whole composed of some positive traits. It is an internal stable characteristic of an individual, but it keeps developing and changing in the whole life cycle of a person. [1] A positive personality emphasizes the interaction of various factors in the process of personality formation. Seligman believes that personality is influenced by both heredity and social environment, which indicates that personality is malleable [2]. People with positive personality will always show a positive state of mind in different environments, then make positive behaviors, and can correctly understand and judge their own environment based on the

actual situation.

In contemporary college education, leadership training is an important part of students' basic quality training. Leadership is considered to be a kind of ability and quality reflected by the leader in the process of organizing, commanding and leading the team to achieve the common organizational goal [3].

The purpose of this study is to explore the characteristics and relationship between positive personality and socially responsible leadership of medical college students, so as to improve the level of positive personality and socially responsible leadership of students, so as to provide a strong theoretical basis for colleges and universities to better train high-quality talents.

## II. METHODS

### A. Participants

A total of 2980 college students from a medical college were selected by group test, and 2848 valid questionnaires were collected, with an effective rate of 95.57%. There were 1,150 male students (40.4%) and 1,698 female students (59.6%). There were 615 only children (21.6%) and 2,233 non-only children (78.4%). There were 2093 rural students (73.52%) and 755 urban students (26.48%).

### B. Measures

#### 1) The College Student Positive Character Scale

The positive personality inventory of college students compiled by Du Xinhua [4] in 2009 was adopted. This scale loyal includes 88 titles, including 24 dimensions: creativity, judgment and insight, humor, enthusiasm, love, faith (beliefs), leadership, fairness, tolerance, hope, courage, curiosity, cautious, honest, self-discipline, teamwork, appreciation, social intelligence, studious, humility, persistence, kindness and gratitude. The scale USES a five-point scale, ranging from

1 (very inconsistent) to 5 (very consistent). The higher the score, the more prominent the positive personality traits of the individual are. In this study, the Crombach PCR coefficient of the scale was 0.97.

### 2) Social Responsibility Leadership Table

The social responsibility leadership scale [5], revised by Dugan et al. In 2006, was adopted, with a total of 68 questions, and the eight dimensions of self-cognition, consistency, commitment, cooperation, common goal, politeness, civic responsibility and change were evaluated respectively. Each item focuses on the frequency of socially responsible leadership behavior. The scale USES a five-point scale, ranging from 1 (never) to 5 (always). The higher the score, the higher the frequency of students' socially responsible leadership behaviors. In this study, the Crombach PCR coefficient of the scale was 0.94.

### 3) Statistical Analysis

Using SPSS19.0 statistical analysis of data, used the statistical methods such as correlation analysis, regression analysis. Inspection level =0.05.

### III. RESULTS

#### A. Common method deviation test

Harman single-factor test method [6] was used to conduct exploratory factor analysis on all questionnaire questions. The results showed that there were a total of 23 factors with eigenvalues greater than 1, and the explanatory rate of the first common factor was 24.78%, which was less than the critical standard of 40%, indicating that there was no serious common method deviation in this study.

#### B. General characteristics of positive personality and socially responsible leadership of medical college students

As shown in table I, the mean score of positive personality traits of medical college students was 330.95±42.281, higher than the median value of 264, indicating that the score of positive personality traits of medical college students was on the high side of the average.

Medical college students social responsible leadership mean score was 247.09±22.812, higher than the mid-range 204, including self-awareness, consistency, commitment, cooperation, common goals, competing with courtesy, civic responsibility and change the average of all dimensions are slightly higher than the value, in theory, suggests that medical college students' social responsible leadership in medium high score level.

#### C. Differences in demographic variables between positive personality and socially responsible leadership among medical college students

Table II shows that, in terms of gender, the scores of positive personality and socially responsible leadership of male college students are significantly higher than that of female college students. The scores of positive personality and social responsibility leadership of urban college students were significantly higher than those of rural college students. The scores of positive personality and socially responsible leadership were also significantly different in the variables of being the only child, and the scores of the only child were significantly higher than those of the non-only child.

TABLE I. AUTISTICS OF POSITIVE PERSONALITY AND SOCIAL RESPONSIBILITY LEADERSHIP OF MEDICAL COLLEGE STUDENTS (N = 2848)

| Statistics | Total positive personality score | Total score of social responsibility leadership | Consciousness of Self | Congruence | Commitment | Collaboration | Common purpose | Controversy with civility | Citizenship | Change |
|---|---|---|---|---|---|---|---|---|---|---|
| $\bar{x}\pm s$ | 330.95±41.281 | 247.09±22.812 | 30.51±3.778 | 26.02±3.344 | 23.60±2.706 | 30.32±3.474 | 31.40±3.447 | 40.38±4.055 | 31.21±3.529 | 33.65±4.075 |
| Midpoint | 264 | 204 | 27 | 21 | 18 | 24 | 27 | 33 | 24 | 30 |
| Title Number | 88 | 68 | 9 | 7 | 6 | 8 | 9 | 11 | 8 | 10 |

TABLE II. DIFFERENCES IN DEMOGRAPHIC VARIABLES BETWEEN POSITIVE PERSONALITY AND SOCIALLY RESPONSIBLE LEADERSHIP AMONG MEDICAL COLLEGE STUDENTS(N＝2848)

| Factor | | Positive Personality | t | Social responsibility leadership | t |
|---|---|---|---|---|---|
| Gender | Male(N=1150) | 335.47±43.864 | 4.720*** | 249.93±25.600 | 5.266*** |
| | Female(N=1698) | 327.89±39.154 | | 245.17±20.496 | |
| Student Origin | From rural areas(N=2093) | 329.40±40.387 | -3.246*** | 246.07±21.572 | -3.692*** |
| | From urban areas(N=755) | 335.27±43.400 | | 249.94±25.743 | |
| Only-child | Only Child(N=615) | 336.39±43.975 | 3.521*** | 249.61±25.097 | 2.883** |
| | Non Only Child(N=2233) | 329.46±40.389 | | 246.40±22.096 | |

*Note: *P＜0.05, **P＜0.01, ***P＜0.001 The same below*

#### D. Correlation analysis of positive personality and social responsibility leadership of Medical College Students

Table III shows that there is a significant positive correlation between the total score of positive personality traits and the total score of socially responsible leadership among medical college students (r=0.693, p< 0.01). Among them, there is a significant positive correlation between the total score of positive personality traits and the dimensions of self-cognition, consistency, commitment, cooperation, common goal, politeness, civic responsibility and change in social responsibility leadership.

TABLE III.    Correlation analysis of positive personality and social responsibility leadership of Medical College Students (N=2848)

| Item | Total score of social responsibility leadership | Consciousness of Self | Congiuence | Commitment | Collaboration | Common purpose | Controversy with civility | Citizenship | Change |
|---|---|---|---|---|---|---|---|---|---|
| Total positive personality score | 0.693** | 0.480** | 0.607** | 0.554** | 0.662** | 0.601** | 0.509** | 0.636** | 0.438** |

TABLE IV.    Regression analysis of positive personality on students' social responsibility Leadership (N = 2848)

| dependent variable | Forecast variable | B | β | t | R² |
|---|---|---|---|---|---|
| Social responsibility leadership | Positive personality traits | 0.383 | 0.693 | 51.286*** | 0.480 |

## E. Regression analysis between positive personality and social responsibility leadership

Shown in table IV, with a positive personality trait score as a predictor variable, social responsible leadership score as the dependent variable, regression analysis, according to the results of positive personality can positively predict social responsible leadership (t = 51.286, p < 0.001), established the regression equation for: $\hat{y}=120.351+0.383x$.

## IV. Discussion and Analysis

In this study, it was found that the overall score of positive personality of medical college students was at a moderately high level, indicating that the overall level of positive personality developed well, which was consistent with the previous research results [7]. The positive personality scores of medical college students were significantly different in gender, place of origin and whether they were the only child or not. On the dimensions of judgment, creativity, and insight into personality traits, boys showed higher levels of self-discipline, while girls showed more tolerance and gratitude. Compared with urban students, rural students have relatively few opportunities to get in touch with modern life, so they have a weak ability to adapt to social life. Modern life has accumulated more social practice experience for urban students, which enables them to have better insight and curiosity, thus showing higher positive personality traits. Because only children get all the attention and love from their parents, but not from their siblings, they score significantly higher on measures of positive personality traits than non-only children.

The study found that the average score of social responsibility leadership of medical college students was only at a medium level, and they did not show strong social responsibility leadership, which indicated that students did not train and improve their leadership in college, and colleges did not pay enough attention to leadership education of college students. Dugan, who studied the factors that affect college students' social responsible leadership, found in the university's experience is the most significant factors that affect college students' social responsible leadership, including the discussion of the focus problems of society, the relationship between teachers and students, and students relations, the university participation, service and leadership role and status of formal leadership project [6] [8], so college courses in leadership training program or is the top priority. There are significant differences in gender, origin and singleton status among medical students. In the context of eastern culture, it is generally believed that men should assume more social responsibilities than women. In a family, men usually play the role of breadwinner, so they should be more responsible and show higher leadership skills. Compared with rural students, urban students can be exposed to more social services and activities in city life, so they have more opportunities to get exercise, which enables them to perform better in cooperation, communication and coordination with others.

This study found that medical college students positive personality and social responsible leadership was significantly positive correlation, positive personality can positively predict the students' social responsible leadership, this similar to the results of Zheng Rong [7], when put college student leaders in different situation, the leadership of the personality traits significantly influence factor is still the leadership level. Because the social responsibility leadership includes eight dimensions of self-cognition, consistency, commitment, cooperation, common goal, politeness, civic responsibility and change, students with more positive personality traits will show stronger social responsibility leadership. This also reveals that in the development of quality education in colleges and universities, socially responsible leadership can be improved by cultivating positive personality traits of college students.

This study also found that there are still some students with low levels of positive personality and socially responsible leadership. For these students, it is necessary to timely carry out education and learning on positive personality traits and leadership. This also reflects the necessity and practical significance of this study. The cultivation of positive personality traits and leadership qualities of college students should be paid attention to by colleges and universities.

## V. Conclusion

This study investigated the characteristics and correlation of positive personality and socially responsible leadership among different types of medical college students, and mainly drew the following conclusions: Medical college students have a high level of positive personality, but general social responsibility leadership; The scores of different types of college students differ significantly in positive personality and socially responsible leadership; There is a significant positive correlation between positive personality and socially responsible leadership among medical college students.

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