The Impact of Resilience on the Psychological Health of Disadvantaged Children: The Mediating Role of Coping Styles and Core Self-evaluation

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ABSTRACT

Objective: Based on the environment-individual interaction model and the "evaluation-coping" theory, the relationship between Resilience, Coping Style, Core Self-evaluation and psychological health of disadvantaged children was explored to provide some theoretical support for psychological health intervention research. **Methods:** Resilience Scale for Chinese Adolescent (RSCA), core self-evaluation Scale (CSES), Simplified Coping Style Questionnaire (SCSQ), General Health Questionnaire (GHQ-12) were used to conduct a questionnaire survey among 618 middle school students in South Xinjiang. **Results:** First, GHQ-12 scores were negatively correlated with RSCA, CSES, and SCSQ scores ($r=-0.57/r=-0.56/r=-0.49$, $P<0.001$), and positively correlated with the level of psychological health; second, coping styles is a mediator between resilience and psychological health (mediator effect value is -0.04); third, core self-evaluation is a mediator between coping styles and psychological health, there is "resilience — coping styles — core self-evaluation — psychological health" path. **Conclusion:** Resilience can directly predict the psychological health of disadvantaged children, and indirectly predict psychological health level through chain mediation of coping styles — core self-evaluation.

Keywords: resilience, core self-evaluation, coping styles, psychological health, mediator.

1 INTRODUCTION

Adversity of different risk indexes will inevitably occur during the growth of adolescents, and risk gradient effects have been shown in studies of poverty, abuse, war, natural disasters, and other risk indexes. However, the adaptive results of adolescents are heterogeneous (Masten, 2014; Felitti, et al.

2019; Masten, Cicchetti, 2016; Cutuli, 2013; Evans, 2013; Masten, 2012; Masten, 2015). According to statistics, 80% of individuals in developing countries who need psychological health care have not received relevant interventions (GAP, 2008; Pearson, 1970). With the advancement of poverty alleviation work in China, in order to prevent the phenomenon of returning to poverty, the four prefectures in southern Xinjiang, are the key areas of concern. While improving the material conditions, timely intervention measures should be taken to avoid the "scar" effect of poverty disadvantages brought about by physical and psychological health for young people (Noble, et al., 2015; Hair, et al., 2015; Duncan, 2010; McLoyd, 1998; Jane, 1993; Michael, 2003; Xie Qian, 2008). Studies in China and foreign countries have shown that personal changes experienced by adolescents aged 10-15 are more profound than at other stages of life (Woolfolk, 2005). Adversity in the early period may have programming effects that affect their lifetime development (Masten & Cicchetti, 2016; Gunnar, 2016; Vernonfeagans, 2016; Escobar, 2021), and long-term poverty will decrease children's brain capacity and affects mentality and cognitive development (Katsnelson & Alla, 2015; Barch, et al., 2016; Masten, et al., 2008). But why are some children still advancing in the face of adversity? The "challenging" model and the "steel effect" of psychological toughness and related research show that through psychological toughness training, individuals perceive less psychological pain or stress confusion, which can buffer or eliminate the effects of negative events, thereby improving their psychological health level (Masten, et al., 2008; Rutter, 2010; Garnezy, et al., 1984; Tenzin, Xuqun, 2017; Friborg, et al., 2006). Therefore, exploring the impact mechanism of resilience on the psychological health of disadvantaged children can provide some practical guidance and theoretical basis for the psychological health education and intervention research of vulnerable children.

The environment-individual interaction model in resilience regards the environment as an individual's ecological circle from an ecological perspective, emphasizing the process in which individuals adopt a positive coping style in the face of adversity will form a positive result (Sun, et al., 2005). Empirical research also shows that the less resources available to cope with adversity, the fewer positive coping styles, and the increase in negative coping styles is negatively related to psychological health (Lever, 2008; Lijun, et al., 2014). Resilience is an important ability to adapt to adversity, and the coping style is the behavior adopted by individuals when facing adversity (Tenzin & Xuqun, 2017; Friborg, et al., 2006). Therefore, this study proposes hypothesis H1: coping style is an intermediary variable between resilience and psychological health of disadvantaged children.

So how does coping style affect psychological health? Lazarus' "evaluation-coping" theory and empirical research show that individuals with high core self-evaluation rarely adopt avoidant coping styles and believe that they have the ability to solve the problems they face (Kammeyer-Mueller, et al., 2009),

which can reduce their anxiety and depression, reduce the occurrence of negative behaviors, and help maintain the psychological health of adolescents (Lei, et al.,2018). Core self-evaluation refers to the basic cognition and evaluation of the self that gradually develops as the individual continuously solves problems during the growth process (Judge, et al.,2010), which indicates that the core self-evaluation level is unstable due to the interaction between the individual and the environment (Judge, 2009), especially for teenagers aged 0-15. So how to choose the order of intervention according to the characteristics of adolescents' physical and mental development in actual teaching? Is the intervention that first focuses on coping with tendencies a more effective measure to steadily improve core self-evaluation and thereby improve psychological health? Combining previous studies, this study proposes hypothesis H2: core self-evaluation is an intermediary variable between coping style and psychological health of junior high school students.

In summary, in order to stimulate the potential of disadvantaged children and enhance their psychological health, and to explore more effective interventions, this study integrates the "evaluation-response" theory and empirical research based on the environment-individual interaction model, mainly explores how "resilience" affects psychological health, and examines the mediating role of coping style and the chained mediating role of coping style and core self-evaluation. This not only helps to understand the mechanism between resilience and psychological health from the perspective of coping style and self-evaluation, but also provides empirical evidence and theoretical support for intervention research to improve adolescents' resilience and further improve their psychological health, and then promote national unity and strengthening national exchanges and provide guidance with important scientific and practical value.

2 OBJECTS AND METHODS

A. Objects

The cluster sampling method was adopted to select students from six classes in the seventh and eighth grades of a middle school in southern Xinjiang as the test subjects. On-site testing and recovery questionnaires were issued, and 650 questionnaires were distributed. The effective rate is 95.08%. Among them, 302 were male students, accounting for 48.87%; 316 were female students, accounting for 51.13%; and the average age was (14.1 ± 1.437).

B. Tools

Resilience Scale for Chinese Adolescent (RSCA): Resilience Scale for Chinese Adolescent (RSCA) compiled by Hu Yueqin and Gan Yiqun was used. A total of 27 items including 5 dimensions (family support, interpersonal assistance, goal focus, emotional control, positive cognition), 1-5 grades, 1

(completely inconsistent) ~ 5 (completely consistent), a total of 135 The higher the total score, the higher the level of resilience (Yueqin & Yiqun., 2008). The internal consistency reliability of the scale was 0.77, and the retest reliability was 0.86.

Core Self-evaluation Scale (CSES): The Core Self-evaluation Scale (CSES) revised by Judge etc., and Du Jianzheng etc., was used It contains 10 questions, grades 1-5, 1 (completely disagree) ~ 5 (completely agree), and the total score is 50 points. The higher the total score, the higher the core self-evaluation level (Jianzheng, et al.,2012). The internal consistency reliability of the scale was 0.79, and the retest reliability was 0.83.

Simplified Coping Style Questionnaire (SCSQ): Simplified Coping Style Questionnaire (SCSQ) compiled by Xie Yaning was used, with a total of 20 questions, which was divided into two dimensions of positive response and negative response. The score ranges from 0 to 3, 0 (not taken) to 3 (usually taken), and the difference between the score of the positive coping style and the score of the negative coping style is used as the coping style score. A higher coping propensity score indicates a more proactive coping style (Ya'ning., 1998). The internal consistency reliability of the scale was 0.61, and the retest reliability was 0.68.

General health Questionnaire (GHQ-12): This used the General health Questionnaire (GHQ-12) compiled by Goldberg, with a total of 12 items, a score of 0-3, 0 (never) to 3 (often), with a total score of 36 points. The higher the total score, the lower the level of psychological health. A total score ≥ 15 indicates a tendency to have mental problems (Yimin & Yongxin., 2015). The internal consistency reliability of the scale was 0.76, and the retest reliability was 0.78.

C. Quality control

There may be common method deviation in this study, so Harman's single factor method test was used to (unrotated principal component factor analysis of all items in the scale) shows that there are a total of 23 factors with a characteristic root greater than 1, and the first factor's explanatory variation is 11.06%, which is 40% below the critical value. From this, it was determined that the common method deviation did not cause serious errors in this study. In order to ensure the reliability of this study, the following measures were taken during the research: (1) Classes are uniformly tested, and in order to grasp the content and time of the scale, a pre-investigation is first performed on a class; (2) The tester is a major in psychology or pedagogy with unified training, using the same standardized guideline; (3) Anonymous investigation, the respondents are informed of the content, and according to the principle of voluntarism, the confidentiality of the research is emphasized in the guidance section; (4) During the test, if there is any unclear content, the test staff will explain it in time, and the time for filling in the questionnaire is

controlled within 30 minutes; (5) In the process of sorting and entering data, the questionnaire contents were checked one by one in a timely manner and uniformly numbered and rechecked. It was found that those with missing items above 20% did not enter the data entry stage. And it randomly selected 5% of the input data to check whether it is consistent with the original data and ensured that the consistency is above 95%.

D. Data processing and analysis

According to the type of data, the researchers used spss17.0. After controlling demographic factors, Pearson correlation analysis and hierarchical regression were performed on resilience, coping style, core self-evaluation and psychological health factors. Amos 23.0 was used to construct the structural equation model, and the non-parametric percentile Bootstrap method was used to test the significance of the mediating effect by bias correction. The difference was statistically significant at $P < 0.05$ or 0.001.

3 RESULTS

A. Correlation analysis of resilience, coping style, core self-evaluation and psychological health

After conducting the Pearson correlation analysis of resilience, coping style, core self-evaluation and psychological health, the results show that resilience was positively correlated with its sub-dimensional target concentration, emotional control, positive cognition, family support, interpersonal assistance and core self-evaluation, coping style and its sub-dimensional positive coping, ($P < 0.001$) and was negatively correlated with coping style sub-dimension ($P < 0.001$); it is negatively correlated with psychological health ($P < 0.001$), that is, positively correlated with psychological health level. Psychological health was negatively correlated with coping style and positive coping ($P < 0.001$), which was positively correlated with psychological health; positively correlated with negative coping ($P < 0.001$), which was negatively correlated with psychological health. (See "Table I")

TABLE I Correlation matrix of resilience, core self-evaluation, coping style, and psychological health

	<i>M</i>	<i>SD</i>	1	2	3	3.1	3.2	3.3	3.4	3.5	4	5	6	6.1
1 Gender	-	-	1											
2 Age	14.1	1.437	-0.15	1										
3.RSCA	90.8	12.76	0.01**	-0.13**	1									
3.1Target focusing	17.59	3.8	-0.02	-0.04	0.62***	1								
3.2 Emotional control	18.47	4.61	-0.06	-0.07	0.64***	0.19***	1							
3.3 Positive cognition	14.4	3.0	0.08	-0.05	0.38***	0.31***	0.03	1						
3.4 Family support	18.97	4.4	0.03	-0.08*	0.66***	0.27***	0.24***	0.13***	1					
3.5Interpersonal assistance	18.76	5.0	0.03	-0.13**	0.68***	0.23***	0.34***	-0.03***	0.3***	1				
4 CSES	32.93	6.24	-0.08*	-0.13**	0.62***	0.41***	0.48***	0.25***	0.34***	0.4***	1			
5 GHQ-12	15.17	5.06	0.06	0.13**	-0.59***	-0.35***	-0.41***	-0.26***	-0.39***	-0.35***	-0.56***	1		
6 SCSQ	-0.27	1.28	0.04	-0.09*	0.53***	0.41***	0.28***	0.33***	0.3***	0.32***	0.45***	-0.49***	1	
6.1 Positive coping	2.27	1.0	-0.03	-0.07	0.29***	0.29***	0.07	0.28***	0.17***	0.19***	0.25***	-0.26***	0.64***	1
6.2 Negative coping	-2.86	1.0	-0.08*	0.04	-0.23***	-0.23***	-0.28***	-0.15***	-0.2***	-0.2***	-0.32***	0.36***	-0.64***	0.18***

Note: *** $P < 0.001$; RSCA, Resilience Scale for Chinese Adolescent; CSES, Core Self-evaluation Scale; GHQ-12, General Health Questionnaire; SCSQ, Simple Coping Style Scale

B. Regression analysis of resilience, coping style, core self-evaluation and psychological health

Transform each predictor into a Z-score to control the effects of gender and age. According to the mediation effect test process proposed by Wen Zhonglin et al. (Zhonglin. et al., 2004), the researchers studied the method of stratified regression to test whether there is a mediating role between coping style and core self-evaluation and resilience and psychological health.

Regression analysis shows that when resilience and coping style and core self-evaluation enter the equation, coping style and core self-evaluation play the part of the mediating effect respectively. Hypothesis 1 is supported that coping style mediate between resilience and psychological health. It also shows that core self-evaluation plays a mediating role between resilience and psychological health. When the three enter the regression equation at the same time, the absolute value of the resilience regression coefficient decreases, indicating that coping style and core self-evaluation play a role at the same time. Considering that the direct effects of resilience on psychological health are still significant, it shows that coping style and core self-evaluation are in part of the mediating role between resilience and psychological health. That is, Hypothesis 2 is supported, and core self-evaluation plays a mediating role between coping style and psychological health. (See "Table II")

TABLE II Regression analysis of resilience, core self-evaluation, coping style and psychological health

Variable	GHQ-12 (Step 1)		SCSQ, CSES (Step 2)				GHQ-12 (Step 3)		GHQ-12 (Step 4)	
	β	t	β	t	β	t	β	t	β	t
Age	0.08	1.94	0.03	0.78	-0.1	-2.54**	0.04	1.41	0.64	2.06*
Gender	0.14	3.52**	-0.08	-1.97*	-0.07	-3.67***	0.05	1.46	0.05	1.5
RSCA	-0.586	-17.67***	0.527	15.15***	0.622	19.48***	-0.39	-9.75***	-3.06	-7.38***
SCSQ							-0.25	-6.67***	-0.194	-5.35***
CSES							-0.31	-7.77***	-0.29	-7.37***
R ²	0.34		0.39				0.39		0.44	
							0.41			

Note. *** $P < 0.001$; ** $P < 0.01$; * $P < 0.05$, Same as below.

C. Coping style and the construction of a core self-evaluation chain mediation model

In order to further verify the relationship between resilience, coping style, core self-evaluation and psychological health, a model was constructed with resilience as independent variable, psychological health as dependent variable, and coping style and core self-evaluation as mediating variables. The structural equation model is shown in "Fig. 1", and the fitting indexes obtained by the model are shown in "Table III". It can be seen from the fitting indexes of the model that the model is an acceptable model.

Fig. 1. Structural equation of the relationship between coping style and core self-evaluation and resilience and psychological health.

TABLE III Resilience, coping style, core self-evaluation, and fit indicators of psychological health mediating models

CFI	NFI	RMSEA	GFI	IFI	AGFI	χ^2/df
0.94	0.91	0.05	0.96	0.94	0.93	2.57

As can be seen from "Fig. 1", the path coefficient hypothesis tests in the model all showed statistically significant differences ($P < 0.001$). As can be seen from "Table III", the joint saliency test can be used to judge the mediating effects of the two mediating variables of coping propensity and core self-evaluation, and the chain mediation effect from resilience to psychological health is also significant. In order to further test the chained mediation effect of coping style and core self-evaluation, a bias-corrected non-parametric percent Bootstrap test was used and repeated sampling was performed 2000 times. It was found that the 95% confidence intervals of the three paths did not contain 0, which again proved the existence of chained mediation effects. (See "Table IV")

TABLE IV. The path and utility of resilience and psychological health

Mediation effect	Intermediate utility	Mediating effect ratio	95% confidence interval
<i>RSCA</i> → <i>SCSQ</i> → <i>CHQ-12</i>	-0.04	35.78%	[-0.05,-0.02]
<i>RSCA</i> → <i>CSES</i> → <i>CHQ-12</i>	-0.06	55.05%	[-0.08,-0.04]
<i>RSCA</i> → <i>SCSQ</i> → <i>CSES</i> → <i>CHQ-12</i>	-0.1	9.17%	[-0.02,-0.01]

4 DISCUSSION

Based on the environment-individual interaction model, the "evaluation-coping" theory and previous empirical research, this study explores the relationship between resilience and psychological health and the mechanism. Studies have found that resilience and core self-evaluation, coping style, and sub-dimensional positive coping styles have a negative predictive effect on the psychological health scores of disadvantaged children, that is, they have a positive predictive effect on psychological health level (Chen, 2005; Tenzin, 2017; Lei et al., 2018; Junqiang & Jianyong., 2013; Xiaojuan et al., 2014; Huang

et al., 2014; Liu et al., 2019; Yang., 2015; Qiang et al., 2017; Zhang & Zhao.,2009; Yonghong et al., 2013). The negative coping style has a positive predictive effect on the psychological health of disadvantaged children, that is, it has a negative predictive effect on the psychological health level, which is consistent with previous studies (Lijun et al., 2014; Zhu et al., 2014). Further research shows that resilience can not only directly affect mental health, but also indirectly affect psychological health through the mediating role of coping style and core self-evaluation. The mediation effect includes three paths: (1) mediating path through core self-evaluation; (2) mediating path through coping style; (3) chain mediating path through coping style and core self-evaluation.

A. Analysis on the impact of resilience on psychological health of disadvantaged children

Resilience, as an important ability to resist adversity, is an important factor affecting adolescents' psychological health. Previous studies have shown that there is a vicious cycle of poverty and psychological illness (Lund et al., 2011), which easily leads to psychological problems such as inferiority, depression, anxiety, and is easily affected by adverse environmental conditions (Xie & Zhu., 2008). It is reflected in the lack of long-term goals, positive cognition, weak emotional management ability, and easy selection of negative coping styles. Resilience training can improve the psychological and behavioral problems of adolescents (Liu et al., 2019; Yang., 2015; Yonghong et al., 2013). This study found similar conclusions with disadvantaged children in southern Xinjiang, and met the "challenging" model and "steel effect". Therefore, disadvantaged children can improve their psychological health by improving their resilience.

B. Mediating role of coping style between resilience and psychological health

In this study, coping style plays a mediating role between resilience and the psychological health of disadvantaged children. Specifically, the higher the level of resilience of disadvantaged children, the higher the level of their psychological health. Coping style can significantly predict their level of psychological health, that is, individuals with high resilience tend to take an active approach when facing adversity, and better balance their physical and mental states, thereby achieving a higher level of psychological health. The results support the environment-individual interaction model and are consistent with previous research results (Zhu et al., 2014; Wu et al., 2014; Ireand et al., 2005; Meng et al., 2011). The intervention research on psychological health has practical significance. Disadvantaged children have relatively more obstacles to development due to lack of resources (Duncan & Brooks-Gunn., 2010; McLoyd, 1998), and in the face of adversity, they tend to choose negative coping styles (Fengjuan, 2018). At the same time, because they are at an age that is susceptible to external influences, which makes

psychological and behavioral problems more common. Therefore, it is extremely important for relevant authorities to provide early intervention for disadvantaged children.

C. Mediating role of core self-evaluation between coping style and psychological health

The results of this study show that core self-evaluation plays a mediating role between coping style and psychological health of junior high school students. Positive coping styles will enhance core self-evaluation and negative coping styles will reduce self-cognition. This result supports the "evaluation-response" theory (Junqiang & Jianyong., 2013). At the same time, core self-evaluation can positively predict the level of psychological health, and junior high school students who take an active coping style will have a higher core self-evaluation, thereby improving their psychological health, which is consistent with the results of previous studies (Xiaojuan et al., 2014; Zhang & Zhao, 2009). It shows that disadvantaged children have a higher self-evaluation and a higher level of psychological health if they adopt a positive coping style. As adolescents aged 10-15 are in a period of great changes in their physical and mental development, their self-cognitive development is unstable. Interventions that first focus on coping style are also a way to improve core self-evaluation and then their psychological health. In addition, this study found that resilience can indirectly affect the psychological health of junior high school students through part of the mediation effect of core self-evaluation, which is consistent with the results of Zeng Xiaojuan's study of left-behind junior high school students (Xiaojuan et al., 2014). This means that junior high school students with high resilience have higher core self-evaluation. It is necessary to objectively evaluate their ability and value and maintain a positive attitude when facing adversity, and believe that they can overcome the challenges they face and have a higher level of psychological health.

In summary, this study builds a chained mediating model and explores the process and mechanism of resilience affecting the psychological health of junior high school students. Coping style and core self-evaluation act as a chain mediating between resilience and the psychological health of junior high school students. It also verifies resilience → coping style → core self-evaluation → psychological health as an intermediary model, that is, adolescents with high resilience are more proactive in adopting positive coping styles in the face of adversity. While positive coping style has a positive predictive effect on core self-evaluation, and individuals with negative coping style have a negative predictive effect on core self-evaluation. Core self-evaluation is an important predictor of psychological health and explains the part of psychological health variance.

5 RESEARCH SIGNIFICANCE AND SHORTCOMINGS

Based on the environment-individual interaction model, "evaluation-response" theory and

previous empirical research, this study explores the impact of resilience on psychological health and the mechanism in disadvantaged children in southern Xinjiang. It was found that resilience can not only positively predict the level of psychological health, but also affect psychological health through the chained mediating effect of coping style $\rightarrow$ core self-evaluation. This shows that coping style and core self-assessment are the key factors that affect resilience and improve psychological health. It expands previous research on the effects of resilience on psychological health, and adjusts or weakens the negative coping styles and outcomes that are easy to take when young people encounter adversity, which has significant negative effects. From a practical perspective, first, relevant departments should create positive conditions, encourage more social forces to pay attention to and participate in the education of disadvantaged children, and take timely preventive interventions to reduce the continuous trauma of the "scar effect" of poverty. Secondly, educators need to provide a variety of positive coping styles based on local resources at the time, pay special attention to students who often adopt negative coping styles, intervene in a timely manner, improve their cognitive style and enhance related abilities, and pay attention to guiding students to use positive coping styles to replace negative coping styles. While guiding students to objectively evaluate their abilities and values while maintaining resilience, it is necessary to maintain a positive attitude. At the same time, these influencing factors are introduced into the psychological health classroom in order to eliminate the negative effects brought by adversity and improve their psychological health, and provide certain theoretical support for the research and intervention of psychological health.

However, there are also shortcomings in this study. First, considering factors such as research funding and ease of sampling, this study only selected schools in southern Xinjiang for investigation. The sample size is relatively small, which is not conducive to the promotion of the research results. Second, this research adopts a cross-sectional research design, which only theoretically verifies the chain mediating effect, but also shows that it is not enough to analyze the causal relationship between variables more clearly from a practical perspective. It can be combined with vertical research in the future. Third, the variables that mediate between resilience and psychological health are not limited to core self-evaluation and coping style. Other variables, such as family socioeconomic status, family parenting style, and personality characteristics, that affect resilience may also be the potential mediators that affect psychological health, and there may also be interactions between these mediators and core self-evaluation and coping style. These potential mediators and their interaction mechanisms need to be further studied in the future.

6 CONCLUSION

The research can be concluded as:

- Coping style mediates between resilience and mental health.
- Coping style and core self-evaluation play a chain mediating role between resilience and mental health.

In other words, resilience has an impact on the mental health of disadvantaged children through adjustment of coping styles on the one hand, and a chain mediating effect between coping style and core self-evaluation on the other hand.

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