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## Characteristics, Challenges, and Countermeasures of Adolescent Emotion Regulation

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### Abstract

Adolescents are undergoing rapid changes in physiology, psychology, and social roles, leading to the development of emotional regulation. Emotional regulation is a key aspect in promoting adolescents' mental health, social adaptability, and future life development. It possesses unique characteristics, faces significant challenges, and requires targeted coping strategies. This article explores the two dimensions of characteristics and challenges, analyzes the current situation, and proposes systematic coping strategies, aiming to provide reference suggestions for building a more comprehensive growth space for adolescents. The research results show that the core characteristics of adolescent emotional regulation exhibits significant stage characteristics. Physiologically, the imbalance between immature prefrontal cortex and active limbic system makes decision-making susceptible to immediate emotional control, leading to an increase in impulsive behavior. Simultaneously, fluctuations in hormone secretion lead to intense and frequent shifts in emotional experiences, manifesting as a "bipolar" state, such as a sudden shift from extreme excitement to self-doubt. Psychologically, the awakening of self-awareness prompts emotional expression to shift from overt to covert, often releasing emotions through indirect means such as social media, forming a "performative" characteristic. The core challenges of adolescent emotional regulation are as the following 3 aspects. The first is Internal conflict. The gap between the ideal self and the real self triggers persistent anxiety, and academic pressure and peer relationships exacerbate emotional fluctuations. The second is expression barriers. The concealment of emotions leads to communication difficulties, frequent family misunderstandings, and is prone to triggering parent-child conflicts. The third is insufficient regulation ability. The lack of effective coping strategies leads to easy falling into cycles of depression or irritability, affecting social adaptation. There are 3 scientific countermeasures for adolescent emotional regulation. The first is family-school collaboration. Parents need to adopt listening-based communication, avoid labeling judgments, and build trust through joint activities. Meanwhile, schools introduce emotional management courses, such as mindfulness meditation and emotional diaries, to enhance self-awareness. The second is

*individual skill development. Adolescents should be taught immediate regulation skills such as deep breathing and exercise to alleviate impulsive reactions, and artistic expression (such as painting, writing) should be encouraged as a channel for emotional catharsis. The final is strengthening social support. Build peer support networks to reduce loneliness, and introduce professional psychological counseling when necessary.*

**Conclusion:** Families, schools, and society need to work together to create a more inclusive and supportive emotional growth space for adolescents by building a non-judgmental listening environment, strengthening regulation ability cultivation, integrating resources, and promoting inclusive services, helping adolescents become emotionally rich and personality-healthy individuals.

**Keywords:** Adolescents; Emotional regulation; Parenting style; companion

## 1. Introduction

The emotional characteristics of adolescents constitute a complex and multidimensional topic. They encompass various aspects ranging from physiology and psychology to social environment, and are characterized by significant fluctuations and instability, intense and direct reactions, rich emotional experiences, coexistence of internal and external expressions, susceptibility to external environmental influences, impulsivity and explosiveness, a transitional nature from susceptibility to stability, as well as individual and gender differences [1]. In summary, the lack of emotional regulation ability is a key shortcoming in the emotional quality of adolescents [1-2].

Emotional regulation refers to the process by which individuals employ certain strategies and mechanisms to induce changes in physiological activity, subjective experience, facial expressions, and behaviors, thereby meeting their own needs and coordinating with the situation. It is a time-sequenced and dynamic process involving the enhancement, reduction, or relative maintenance of positive or negative emotions. Emotional regulation can unfold during the occurrence of emotions, and its specific process is outlined in the process model proposed by Gross [1].

Emotional regulation is a key indicator of emotional quality and a core link connecting individual mental health, academic achievement, interpersonal relationships, and social harmony. Its necessity is reflected in preventing mental illness, enhancing learning efficiency, optimizing social quality, and promoting social progress [1].

Currently, adolescents are facing unprecedented sources of stress, such as rapid physical and psychological changes, imbalances in physical and psychological development, disharmonious parent-child relationships, academic pressure, problems in teacher-student relationships, peer conflicts, the complexity of digital socialization, and future uncertainty, and so on, posing increasingly severe challenges to their emotional regulation [2]. Traditional education models often neglect emotional cultivation, leading to a lack of regulation strategies and insufficient emotional regulation abilities [3]. Therefore, studying the emotional regulation mechanisms of adolescents can fill the gap between theory and practice and provide scientific guidance for parents and teachers. For example, through empirical research, targeted intervention programs can be developed to help adolescents quickly recover in adversity and enhance their adaptability. In addition, interdisciplinary research (such as combining psychology and neuroscience) can reveal the biological basis of emotional development and optimize intervention methods. Such research is not only academic exploration but also an action to respond to social concerns,

helping adolescents grow into physically and mentally healthy individuals.

In recent years, with the interdisciplinary integration of neuroscience, psychology, and educational practice, research in the field of adolescent emotion regulation has shifted from single trait analysis to the construction of multidimensional dynamic models, providing a more scientific framework for understanding the mechanism of adolescent emotional fluctuations [3]. This article synthesizes the latest research findings and systematically reviews the physiological basis, psychological characteristics, and intervention strategies of adolescent emotion regulation, aiming to provide a theoretical basis for collaborative education among families, schools, and society.

## 2. Characteristics and reasons of adolescent emotion regulation

### 2.1 Significant emotional volatility, easily influenced by internal and external factors

Adolescents' emotions exhibit a "roller coaster" pattern of fluctuations, characterized by sudden spikes and drops in emotional intensity within a short period of time [1]. For instance, a failure in an exam may trigger a strong sense of defeat, which can quickly be transformed into excitement with a word of encouragement from a friend. This volatility stems from the imbalance in brain development [4]: the prefrontal cortex (responsible for rational decision-making) is not yet mature, while the limbic system (emotional center) is already highly active, leading to intense emotional reactions that are difficult to control. Simultaneously, adolescents' sensitivity to their self-image increases, and psychological factors such as body image and social comparison further amplify emotional instability [1, 5]. External factors such as academic stress, peer or family conflicts can exacerbate emotional fluctuations [1, 5]. For example, a parent's criticism may trigger prolonged emotional downturns in adolescents, who may even express their dissatisfaction through rebellious behaviors such as slamming doors or talking back [6]. This pattern of response reflects adolescents' strong need for "being understood," but the expression is often covert and irrational [6]. It is worth noting that emotional fluctuations are not entirely negative; they are also an important process for adolescents to explore themselves and form values. The key lies in how to guide them to transform these fluctuations into motivations for growth. From a long-term development perspective, moderate emotional fluctuations help adolescents accumulate experience in emotional management and form a more resilient psychological structure [1].

## **2.2 Self-regulation ability has taken initial shape, but lacks stability**

Adolescents begin to develop emotional regulation strategies, such as cognitive reappraisal (i.e., re-interpreting the meaning of events) or attentional shifting (i.e., distributing emotions through activities), but their application abilities are limited [7]. For example, when facing social anxiety, they may temporarily escape by scrolling through their phones or playing games, rather than actively solving problems. Although this type of regulation can alleviate immediate stress, it may reinforce dependent behaviors and weaken long-term coping abilities [7-8]. At the same time, the stability of self-regulation is significantly influenced by individual differences [1]. Extroverted adolescents are more inclined to vent their emotions through social activities, while introverted ones may choose to be alone or remain silent. However, regardless of their type, adolescents tend to experience "cognitive narrowing" when their emotions are out of control, which means they focus excessively on negative information and ignore positive resources, leading to worsening emotions [7-8]. In addition, adolescents' metacognitive abilities (i.e., awareness of their own thought processes) are developing. They begin to realize their emotional states and the changing processes, but they still lack effective tools and techniques for deep management, which makes emotional regulation characterized by "awareness first, action lagging" [1]. From the perspective of educational practice, this characteristic suggests that we need to provide adolescents with more diverse and easier-to-operate emotional regulation tools to help them transform emotional awareness into effective action.

## **2.3 Peer influence deepens, and group emotions are easily contagious**

Firstly, peer relationships have become an important external resource for emotional regulation [1]. Adolescents learn emotional expression by observing the behaviors of their peers [1, 9]. For example, humorous interactions among friends can alleviate tense atmospheres, while the spread of negative emotions such as complaining and comparing may trigger collective anxiety. This contagion effect is particularly prominent in the era of social media, because negative comments online may spread rapidly, leading adolescents to fall into an "emotional vortex" [1, 10]. It is worth noting that peer influence is not only reflected in emotional expression but also involves the shaping of values and behavioral patterns [1]. For instance, under group stress, adolescents may conceal their true emotions to cater to others, leading to "emotional disguise", which, if accumulated over time, may trigger psychological exhaustion. Secondly, the double-edged sword effect of peer support is evident. On one hand, empathy from peers can provide a sense of security; on the other hand, inexperienced comfort (such as "don't think too much") may be misunderstood as perfunctory, exacerbating loneliness [9]. In addition, if a member is excluded from a "small group" on campus, it may trigger long-term depression. Therefore, guiding adolescents to establish healthy peer relationships and cultivate their ability to identify and cope with negative emotions has become an important topic in emotional education. From the perspective of social network analysis, the depth and breadth of peer influence reach their peak during adolescence, which brings both the possibility of emotional support and potential emotional risks [1, 9].

## **2.4 Family support is prominent, but autonomy needs to be balanced**

The family is the cornerstone of emotional regulation, and parents' empathy directly affects adolescents' emotional security [9].

Effective family support manifests as listening rather than lecturing, accepting emotions rather than denying feelings, and providing choices rather than imposing decisions. For example, when parents use phrases such as "I've noticed you've been feeling down recently, would you like to talk?" instead of "Why are you like this again?", it can significantly reduce adolescents' defensive mentality. From the perspective of developmental psychology, the family is not only a provider of emotional support but also a "training ground" for emotional regulation strategies. Parents subtly influence their children's regulation patterns through their own emotional management demonstrations [1]. However, excessive intervention such as "helicopter parenting" can weaken autonomy [11]. If parents project their own anxiety onto their children, it may trigger "emotional kidnapping", leading adolescents to choose to avoid communication under stress [1]. For example, forcing children to attend supplementary classes may trigger rebellion, while respecting their choices based on their interests can enhance self-efficacy. Therefore, the key to family support lies in finding a balance between care and letting go, providing a safe base while encouraging independent exploration. From the perspective of family systems theory, this balance not only concerns the quality of parent-child relationships but also affects adolescents' future interpersonal patterns and emotional health.

## **3. Main challenges of adolescent emotion regulation**

### **3.1 Mismatch between physiological and psychological development**

The imbalance in brain development poses a core challenge. The delayed maturation of the prefrontal cortex leads to adolescents struggling to rationally assess emotions, making them prone to impulsive actions. For instance, they may engage in aggressive behavior when angry, only to regret it afterwards. This "cognitive-emotional" disconnection increases the difficulty of self-regulation. From a neuroscientific perspective, the synaptic pruning and myelination processes in the adolescent brain are still ongoing, making the processing speed of emotional information and inhibitory control abilities imperfect [4]. Hormonal changes during puberty exacerbate emotional fluctuations [1]. Fluctuations in estrogen and testosterone levels may trigger irritability or depression, and adolescents often lack the cognitive tools to cope with physiological changes, attributing their emotions to "personality issues" rather than physiological factors, leading to self-denial [1]. Furthermore, changes in sleep cycles such as a tendency to stay up late and wake up late are closely related to emotional stability, and insufficient sleep may further amplify emotional fluctuations, forming a vicious cycle [1]. From a public health perspective, this challenge suggests the need to strengthen the scientific popularization of the physiological-psychological development patterns of adolescents, helping them and their support systems view emotional fluctuations more rationally.

### **3.2 Conflict between social stress and identity recognition**

Academic stress is the primary source of social stress. Factors such as examination competition and anxiety about further education keep adolescents in a state of tension for extended periods, leading to excessive depletion of emotional regulation resources [6, 12]. For instance, sacrificing sleep and social interactions to prepare for exams can further undermine emotional stability. In the context of globalization and information explosion, adolescents face multicultural impacts and clashes of values [1]. For instance,

encountering different lifestyles through social media may trigger dissatisfaction or anxiety about one's own situation [6]. On the other hand, identity crisis can lead to emotional distress. When adolescents explore their self-roles, they may experience feelings of inferiority or anxiety due to non-conformity to societal expectations [13]. For instance, uncertainty about gender roles and career ideals may cause long-term confusion and affect emotional expression [6, 13]. It is particularly noteworthy that in a rapidly changing society, traditional identity paths such as career choices and family roles become blurred. Adolescents need to construct themselves amidst more uncertainty, a process that is inherently fraught with emotional challenges [1, 6]. From a sociological perspective, this challenge reflects the profound impact of the individualization process in modern society on the emotional development of adolescents, suggesting the need to provide them with more diverse and inclusive spaces for identity exploration.

### **3.3 The virtuality of digital social interaction is disconnected from reality**

Online interaction lacks deep emotional connections. The display of "perfect lives" on social media triggers comparative anxiety, leading to self-doubt among adolescents due to the gap between reality and expectations [1]. For instance, frequently browsing others' travel photos may induce negative emotions of "life not going as planned". From the perspective of media ecology, digital social interaction not only changes the communication methods of adolescents but also reshapes their emotional experience patterns [14]. For example, the "like culture" makes emotional expressions tend to be superficial, while algorithm-based recommendations may reinforce emotional fixation, leading adolescents to fall into an "information cocoon". On the other hand, cyberbullying exacerbates emotional vulnerability. Malicious comments in an anonymous environment may trigger strong feelings of shame or anger, and due to a lack of coping experience, adolescents may choose silence or extreme behaviors [1]. Therefore, some middle school students have been depressed for a long time due to cyberbullying and eventually drop out of school. Looking deeper, the challenge of digital social interaction lies not only in its content but also in its erosion of adolescents' attention allocation, time management, and real-world social skills [1], which collectively weaken the basic ability of emotional regulation. From the perspective of technological ethics, this challenge suggests the need to strengthen the regulation and guidance of the digital social environment and help adolescents establish healthy online usage habits [14].

### **3.4 Family communication barriers and lack of support**

Intergenerational communication failure is a common issue [1, 9]. Parents often ignore the feelings of adolescents with "empiricism", such as responding to their emotions with "I was like that back in the day", leading to adolescents' resistance to communication [9]. Research shows that only 15% of adolescents believe that their parents can truly understand their needs, while over 60% of parents express "not knowing how to communicate" [6]. From the perspective of family systems theory, communication barriers often reflect deeper family dynamics issues, such as power struggles and blurred emotional boundaries [9]. On the other hand, changes in family structure affect emotional support. Single-parent families or left-behind adolescents may experience insecurity due to the lack of family affection and have weaker emotional regulation abilities [6]. Some left-behind children have exhibited aggressive behaviors due to a long-term lack of parental companionship and were later diagnosed with emotional disorders. In addition, economic stress

leads to longer working hours for parents, reducing the opportunity and quality of parent-child interaction, further weakening the family's support function [9]. From the perspective of social support theory, this challenge suggests the need to build a more comprehensive family support system to help parents improve their emotional communication skills.

### **3.5 Accessibility of professional resources and stigma issues**

Psychological counseling services are unevenly distributed [12, 15-17]. Adolescents in rural areas or low-income families face difficulties in obtaining timely support, leading to the accumulation of problems. Due to the lack of dedicated psychological teachers in some middle schools, students' emotional issues have not been identified for a long time. From a public health perspective, insufficient early intervention for emotional issues is likely to lead to more severe mental health problems and increase social costs [12]. On the other hand, the stigma associated with seeking help hinders proactive intervention. Adolescents associate psychological counseling with "mental illness," leading to a low rate of seeking help proactively [12, 15]. Some middle school students who were ridiculed by classmates for depressive symptoms refused treatment, ultimately leading to worsening of their condition. Stigma not only exists among peers but can also internalize into self-stigma, where adolescents deny their emotional distress for fear of being labeled, leading to the exacerbation of problems [12]. From the perspective of health communication, this challenge suggests the need to strengthen scientific promotion of emotional health and reduce the stigma associated with seeking psychological help.

## **4. Coping strategies and practical suggestions**

### **4.1 Create a non-judgmental listening environment**

#### **4.1.1 At the household level**

Parents need to abandon the "educator" posture and listen with an equal and non-judgmental approach [9, 11]. For instance, instead of saying "Why are you like this again?", parents can say "I've noticed that you've been feeling down recently. Do you want to talk about it?" At the same time, families should establish a regular "emotional check-in" mechanism, such as weekly family meetings, where each member can share their emotional experiences [11]. From the perspective of family therapy, this listening environment not only helps alleviate immediate emotional distress but also fosters emotional connections among family members, providing continuous emotional support for adolescents.

#### **4.1.2 At the school level**

Teachers should understand students' emotional states through classroom activities or anonymous questionnaires, and avoid public criticism [9]. For example, a middle school has set up an "emotional tree hole" mailbox where students can pour out their hearts anonymously, and psychological teachers respond regularly. In addition, schools can integrate emotional education into subject teaching [18], such as analyzing the emotional changes of literary characters in Chinese classes and explaining the physiological mechanisms of emotions in biology classes. From the perspective of educational ecology, this integrated emotional education can more naturally cultivate students' emotional literacy.

#### **4.1.3 Social level**

The media needs to reduce stigmatizing reports on emotional issues among adolescents and advocate for the value of "seeking help is courage" [15]. Communities can establish emotional

support centers for adolescents, providing multidimensional services such as peer counseling and art therapy. From the perspective of community psychology, this multi-level support system can more effectively meet the emotional needs of adolescents [3].

## **4.2 Strengthen the cultivation of emotional regulation ability**

### **4.2.1 Conduct cognitive reappraisal training**

Through role-playing games, adolescents can be taught to reinterpret the meaning of events [7]. For instance, by simulating a "failing an exam" scenario, one can guide them to shift their perspective from "failure" to "an opportunity to learn". Additionally, the introduction of an "emotional diary" tool can assist adolescents in recording emotional triggers and their corresponding coping effects. From the perspective of cognitive behavioral theory, such training can help adolescents establish a more flexible and positive mindset.

### **4.2.2 Attention shifting techniques**

Encouraging the expression of emotions through activities such as sports and art [7]. For instance, a certain middle school has introduced an "emotional painting class", where students express their inner feelings through creation. From the perspective of educational neuroscience, such activities can activate the brain's reward circuit and promote positive emotional experiences.

### **4.2.3 Mindfulness meditation practice [18]**

Utilize apps to provide daily meditation guidance to help adolescents cultivate present-moment awareness. For example, a certain app has launched a "5-minute breathing exercise," and users have reported a significant improvement in emotional stability. Schools can incorporate mindfulness exercises into daily morning assemblies to help students establish habits of emotional regulation. From the perspective of mindfulness psychology, such exercises can enhance adolescents' ability to perceive and accept emotions.

## **4.3 Integrate family-school-community resources**

### **4.3.1 Establishing a family-school linkage mechanism [19]**

Regularly organize parent training sessions to teach communication skills. For example, a kindergarten guides parents on how to interact with their children through picture books, media, and games through "Parent Classroom". At the same time, a home-school communication platform can be established, such as a digital journal, to record students' emotional expressions and support needs. From the perspective of ecosystem theory, this kind of linkage can more effectively support the emotional development of adolescents.

### **4.3.2 Embedding community service [15]**

The community can collaborate with schools to organize "Emotional Support Day" activities, inviting psychological counselors and social workers to provide free services. For example, a certain community holds a "Parent-Child Workshop" every month, promoting family communication through activities such as handicrafts and painting. In addition, the community can cultivate a team of adolescent emotional support volunteers, with trained senior students or retired teachers providing preliminary listening and referral services. From the perspective of community development, this embedded service can respond to the emotional needs of adolescents in a more timely manner.

## **4.4 Promote inclusive access to professional services**

### **4.4.1 Lower the threshold for seeking help [15]**

Schools can establish a "psychological counseling corner" equipped with simple psychological assessment tools, where students can make appointments on their own. For example, a middle school has set up an "emotion detector" in the dormitory area, where students can obtain a preliminary assessment by scanning a QR code. At the same time, "emotional first aid cards" can be promoted, providing simple coping strategies and channels for seeking help. From the perspective of public service, this low-threshold service can identify and intervene in emotional issues earlier.

### **4.4.2 Develop digital tools [16]**

Utilizing AI technology to provide 24-hour emotional support. For example, a certain APP has launched a "emotional tree hole" function, where users can anonymously pour out their hearts, and AI provides suggestions based on keywords and guides them to professional institutions. From the perspective of technological ethics, such tools need to focus on privacy protection and algorithm transparency to avoid dependence or misleading. From the perspective of digital health, such tools can compensate for the time and space constraints of traditional services, providing more convenient emotional support for adolescents.

## **4.5 Pay attention to the needs of special groups [6]**

### **4.5.1 For left-behind adolescents**

The community can establish a "Family Station" to provide video call equipment and teach necessary communication skills, helping them communicate remotely with their parents. For example, through this project, the incidence of emotional issues among left-behind children in a certain county has decreased by 40%. At the same time, left-behind teenagers can be equipped with "emotional mentors", who provide one-on-one support regularly by community volunteers or teachers. From the perspective of social equity, this targeted support can reduce inequalities in emotional health.

### **4.5.2 For victims of cyberbullying**

Schools should establish a rapid response mechanism and collaborate with the network and information department to deal with malicious content. For example, a middle school cooperated with the police to successfully stop a cyberbullying incident, and the students involved received psychological counseling. In addition, "cyber literacy education" can be carried out to teach young people to identify and respond to cyber risks. From the perspective of network security, this comprehensive intervention can more effectively protect young people from cyber harm.

## **5. Conclusion**

Adolescent emotion regulation is a complex process intertwined with physiological, psychological, and social factors. By creating a non-judgmental listening environment, strengthening the cultivation of regulation skills, integrating resources, and promoting inclusive services, we can build a more inclusive and supportive space for adolescents' emotional growth. Families, schools, and society need to work together to help adolescents become emotionally rich and morally sound individuals. In the future, with the deepening of neuroscience, digital technology, and cross-cultural research, our understanding of adolescent emotion regulation will become more comprehensive, and intervention measures will become more precise and effective. From the perspective of future development, research on adolescent emotion regulation will focus more on interdisciplinary integration and

empirical intervention, providing a stronger scientific foundation for promoting the comprehensive development of adolescents.

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