Parenting, identity development, internalizing symptoms, and alcohol use: a cross-sectional study in a group of Italian adolescents

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Background: Literature has demonstrated the adaptive function of identity development and parenting toward manifestation of problem behaviors in adolescence. These dimensions act on both internalizing and externalizing symptoms.

Methods: The objective is to investigate the relationship between identity status, parenting, and adolescent problems, which may manifest through internalized (phobias, obsessions, depression, eating disorders, entropy) and externalized modes (alcohol use and school discomfort). The research involved 198 Italian students (104 males and 94 females) in the 4th year (mean =16.94 years, standard deviation =0.35) and 5th year (mean =17.94 years, standard deviation =0.43) of senior secondary schools, who live in Caltanissetta, a town located in Sicily, Italy. The research lasted for 1 school year. The general group consisted of 225 students with a mortality rate of 12%. They completed an anamnestic questionnaire to provide 1) basic information, 2) alcohol consumption attitude in the past 30 days, and 3) their beliefs about alcohol; the “Ego Identity Process Questionnaire” to investigate identity development; the “Parental Bonding Instrument” to measure the perception of parenting during childhood; and the “Constraints of Mind” to value the presence of internalizing symptoms.

Results: Data show that identity status influences alcohol consumption. Low-profile identity and excessive maternal control affect the relational dependence and the tendency to perfectionism in adolescents. Among the predictors of alcohol use, there are socioeconomic status, parental control, and the presence of internalizing symptoms.

Conclusion: Family is the favored context of learning beliefs, patterns, and values that affect the broader regulatory social environment, and for this reason, it is considered the privileged context on which to intervene to reduce the adolescents’ behavior problems. This deviance could be an external manifestation of the difficulty in management of internalizing symptoms in adolescence.

Keywords: adolescence, parental control, internalizing and externalizing symptoms, constraints of mind, socioeconomic status

Introduction

This cross-sectional study investigates the possible relationship between identity development, parenting, and adolescent problems, which may manifest through internalized modes (phobias, obsessions, depression, eating disorders, entropy) and externalized ones (alcohol use and school discomfort), in a group of 198 Italian students.

Recent literature emphasizes the importance of examining the risk and protection factors for the internalizing and externalizing symptoms in adolescence, which appear in different contexts: social and interpersonal, such as family, school, and peer group; and individual factors, such as identity development, and cognitive and behavioral patterns.
Compared to the interpersonal factors,\textsuperscript{1–4} studies show that a high level of parental control\textsuperscript{5–7} is related to a high level of adolescent’s implication in problematic behaviors (such as alcohol abuse),\textsuperscript{8,9} above all in the age group between 18 and 19 years.\textsuperscript{10,11} Conversely, when the parental presence is significant and authoritative, the adolescents are better protected\textsuperscript{12,13} and the probability of risk-taking behavior decreases.\textsuperscript{14,15}

In reference to the individual dimension, adolescence represents a crucial stage in the development of identity. According to Marcia’s model, the psychosocial identity construct is defined as a dynamic structure and not a static one, whose formation depends on different factors such as the decisions taken during life. The styles through which identity problems are faced are classified into four identity statuses: achievement (characterized by positive self-image, flexibility, and cognitive independence), moratorium (fears for the future, limited flexibility, and reduced cooperation), foreclosure (conventionality, rigidity, low self-esteem, and conflictual relationships), and diffusion status (flexibility and cognitive complexity).\textsuperscript{14}

Literature shows that less sophisticated identity status seems to be correlated with a higher level of alcohol consumption;\textsuperscript{15} so, adolescents with low level of development identity seem to be classified as binge drinkers and heavy drinkers.

However, the social and family dimensions can influence the early risk behavior experimentation in adolescence, but the outcome of these conditioning issues could have different consequences in relation to the individual features, such as identity development and the possible presence of internalizing symptoms.\textsuperscript{16–18}

Identity, parenting, and internalizing symptoms in adolescence

During adolescence, development tasks can be faced without serious difficulties, and the overcoming of these development tasks (such as autonomy from parents, the comparison with peer group and the acquisition of useful tools to experience new roles) could be a significant factor of protection from possible evolutionary breakdown;\textsuperscript{19,20} but transitional or problematic states can lead the person to manifest internalizing symptoms, especially during adolescence.\textsuperscript{21,22} The main risk factors that seem to match with the development of internalizing symptoms are as follows: reduced identity development,\textsuperscript{23} lack of emotional support,\textsuperscript{24} frequent adoption of punitive parenting behavior,\textsuperscript{25,26} parental psychological control,\textsuperscript{27,28} and also disadvantaged sociocultural characteristics.\textsuperscript{29,30}

Compared to parenting, adolescents exposed to parental psychological control seem to adopt the same rigorous and strict standards proposed by parents, living inadequately with the inability to reach the standards, both socially prescribed and those self-imposed.\textsuperscript{31,32} In particular, literature underlines the harmful effects of maternal control, which are less evident toward their daughters and more evident toward their sons, over the level of perfectionism in adolescent children. In the mother–daughter dyad, rather than perfectionism, it seems that the responsible mechanism for the link between controlling parenting and internalizing symptoms is relational dependency.\textsuperscript{33,34}

Moreover, adolescents with low-profile identity (foreclosure and diffusion status) who find themselves living in an adverse family situation could experience a low perception of control over their environment, which may predispose them to develop the perception of reduced control over mental and physical states.\textsuperscript{35,36} In fact, recent studies show how high levels of warmth or support are related to lower levels of internalization in adolescents with high-profile identity;\textsuperscript{37–39} on the other hand, excessive control and lack of parental empathy appear to be related to the onset of interior symptoms such as depression, anxiety,\textsuperscript{40–42} lack of self-control, or irritability in low-profile adolescents.\textsuperscript{43–45}

In particular, the result of internalizing symptoms refers to the superimposition of anxious and depressive syndromes,\textsuperscript{46,47} the presence of anxiety symptoms and feelings of worry and depression in low-profile adolescents are associated with the feeling of being perceived negatively by parents.\textsuperscript{48,49} Even hypercontrol is interpreted by adolescents as the confirmation of a general devaluation by their parents.\textsuperscript{50–52}

Recent research has made refusal and parental control effects more detailed and complex, highlighting how they may be related to both internalizing and externalizing symptoms.\textsuperscript{40,53} In particular, research has demonstrated the adaptive function of paternal empathy and support toward sons;\textsuperscript{54,55} these variables would act on both internalizing symptoms – such as anxiety, depression, impulse control – and externalizing symptoms – such as aggression, taking drugs, alcohol use, and school discomfort. In addition, some theories about deviance in adolescence argue that certain deviant behaviors, such as delinquency and alcohol use, are no more than external manifestations of a difficult management of internalizing symptoms.\textsuperscript{56}

The objective of this study is to examine the relationship between identity, parenting, and adolescent problems, which may manifest through internalized modes and externalized ones in a group of adolescents. In light of the recent literature, we assumed the following research hypotheses: 1) identity development and, in particular, the importance...
conferring to values, religion, family, and friendship influence alcohol use in adolescents; 2) the presence of low-profile identity and excessive maternal control affect the relational addiction and the tendency to perfectionism; 3) a low-profile identity and paternal dysfunctional parenting in adolescent males influence the levels of phobia, obsession, depression, and anxiety; 4) among the predictors of the use of alcohol are socioeconomic status (SES), a low-profile identity, high parental control, and the presence of internalizing symptoms in adolescents.

**Methods**

**Participants and procedure**

The research involved 198 Italian students (104 males and 94 females) in the 4th year (mean [M] = 16.94 years, standard deviation [SD] = 0.35) and 5th year (M = 17.94 years, SD = 0.43) of senior secondary schools, who live in Caltanissetta, a town located in Sicily, Italy.

The research lasted for 1 year; the group of participants involved all students attending the last 2 years of high school, through authorization of headmasters and teachers. Administration of instruments took place during school timetable.

The general group of participants consisted of 225 students. Although all subjects agreed to be part of the research, there was a mortality rate of 12%. This happened because the instruments were administered on 2 different days and the possible absence of students made it difficult to complete the compilation of all protocols.

The consent of the school authorities and the students involved in the study was sought before the distribution and collection of the instruments. The questionnaires were anonymous, and the participants were informed of the aim and structure of the study. All participants provided written informed consent.

The research was approved by the Internal Review Board of the Faculty of Human and Social Sciences at the “Kore” University of Enna.

**Measures**

Participants completed an anamnestic questionnaire, the Ego Identity Process Questionnaire, the Parental Bonding Instrument, and the Constraints of Mind.

Anamnestic data were collected through the administration of a questionnaire constructed ad hoc and divided into three parts: the first to acquire basic information, age, sex, year attended, academic qualifications and professions of parents; the second for establishing school performances, such as absences, permission to enter late or leave early, and marks obtained in the last 30 days; and the third for ascertaining the frequency of alcohol use, average number of drinks consumed per occasion in the past 30 days and the reasons for it, and the beliefs about alcohol use. The family’s SES was defined by family income and education. Family income was defined on an eight-point scale, ranging from 700 Euros to 4,000 Euros per month. Family education was measured with the highest level of parents’ education on a seven-point scale, ranging from primary school to a master’s degree.

The Ego Identity Process Questionnaire is a tool investigating the identity status development according to Marcia’s model through the dimensions of exploration and commitment. The exploration level is measured through the analysis of four ideological domains (occupation, religion, politics, and values), and the commitment level is investigated through four interpersonal domains (family, friendship, sex roles, and sentimental relationships). Literature reports the estimates of internal validity of the tool as 0.80 for the results that indicate commitment and 0.86 for the scores that indicate exploration; the scores that indicate reliability are 0.90 for commitment and 0.76 for exploration; the internal consistency is 0.72 and 0.71 for commitment and exploration, respectively.

The Parental Bonding Instrument is a questionnaire consisting of 25 items, divided into two parts (one for the mother and the other one for the father), which retrospectively measure the perception of behavior of the parents during childhood. The instrument investigates the processes of parenting across two domains, parental care and control or overprotection, from the combination of which four types of attachment were classified: affectionate constraint: high scores in both scales; optimal parenting: high care and low protection; affectionless control: high protection and low care; and neglectful parenting: low care and low protection. Assignment to “high” or “low” categories of domains is based on the following cutoff scores: for mothers, a care score of 27.0 and a protection score of 13.5 are the minimum scores for inclusion in the “high” category; for fathers, a care score of 24.0 and a protection score of 12.5 are the cutoff points. The Italian adaptation reports the estimates of internal consistency of the tool as 0.75 for the results that indicate mother’s care, 0.84 for the scores that indicate mother’s overprotection, 0.83 for father’s care, and 0.88 for father’s overprotection.

The Constraints of Mind is a questionnaire consisting of 150 items, which measures 30 mind constraints grouped into five topics:

- Phobias: catastrophism, frailty, risk avoidance, health apprehension, distrust of others, relational addiction;
• Obsessions: perfectionism, emotional inhibition, fear of making mistakes, control, superstition, cleaning and contamination;
• Depression: failure, loneliness, inadequacy, forced esteem, compulsion to provide care for others, pessimism;
• Entropy: distrust, odd thoughts, perceptual social control, deterministic causality, ambivalence;
• Diet: somatic discomfort, obsession of one’s body, eating behavior, compulsive physical activity, dependence of other’s judgment, relational dynamic.

Assignment to “high” or “low” categories of domains is based on the following cutoff scores: any score of 4 or more is considered meaningful (both the score of each mind constraint, that the score of each topical).

Data analysis
All analyses were conducted with Statistical Package for the Social Sciences 23.0 (IBM Corporation, Armonk, NY, USA).

In reference to preliminary data, t-test for independent samples was used to compare the mean between groups (males versus females). In reference to the mind constraints and alcohol consumption, multivariate analysis of variance (MANOVA) was conducted to verify the influence of independent variables (sex and age) on the identity and the mind constraints.

In order to verify the influence of ideological and interpersonal domains on the use of alcohol, univariate analysis of variance was carried out.

In order to verify if a low level of identity combined with excessive maternal control influences the relational dependence and the tendency to perfectionism, MANOVA was carried out.

The same analysis was carried out to verify if a low level of identity combined with dysfunctional paternal parenting influences the constraints of mind in the group of boys.

In order to explore the predictive variables of alcohol use, hierarchical regression for separate blocks was used: 1) sex, age, and SES in the first block; 2) the level of school performance in the second block; 3) parenting in the third block; and 4) mind constraints in the fourth block. Each block of independent variables was evaluated in terms of what they added to the explanation of the variability of the dependent variable at the time of their entry, evaluating the weight of all predictors.

Results
Descriptive statistics
A descriptive analysis was conducted in order to investigate the mind constraints, comparing the mean scores of boys and girls and the cutoff scores for the Italian population. In the participant group, all mind constraints had lower scores than the cutoff scores (Table 1). The t-test shows that in the entropy domain, boys had higher scores than girls in perceptual social control ($F=4.60, P<0.05$); in the diet domain, girls reported average scores significantly higher than boys in somatic discomfort ($F=12.13, P<0.01$).

Compared to alcohol consumption, t-test shows a significant difference for the variable sex ($t[14,54]=2.69, P<0.001$): boys reported monthly use of alcohol more frequently than girls (males: $M=3.95$, $SD=6.73$; females: $M=1.95$, $SD=0.28$).

MANOVA, done to verify the influence of independent variables on the ideological and interpersonal domains, emphasizes the main effect of age (Wilks’s lambda $=0.92$, $F=2.30, P<0.05$), but no effect due to sex (Wilks’s lambda $=0.86$, $F=1.22, P=not significant [ns]$). Breakdown of the univariate effects shows that older students got higher scores in the family dimension than younger ones ($F=3.40, P<0.05$).

A further MANOVA done to verify the influence of independent variables on the mind constraints emphasizes a main effect linked to the sex variable (Wilks’s lambda $=0.30$, $F=7.73, P<0.001$), age (Wilks’s lambda $=0.31$, $F=1.55, P<0.01$), and SES (Wilks’s lambda $=0.003$, $F=1.30, P<0.001$). In reference to the sex variable, breakdown of the univariate effects shows differences in emotional inhibition ($F=4.93, P<0.05$) and pessimism ($F=110.26, P<0.001$): Tukey’s post hoc shows that boys obtained higher values in emotional inhibition than girls, who obtained higher scores in the pessimism dimension. In reference to age, there is a difference in the pessimism dimension ($F=14.23, P<0.001$): Tukey’s post hoc shows that older adolescents manifested higher values in pessimism than those who were younger. In reference to SES, there are differences in pessimism ($F=11.34, P<0.001$) and fear of making mistakes ($F=2.55, P<0.05$); in particular, adolescents with a greater SES showed lower average scores in pessimism than the adolescents with low SES, who reported greater emotional inhibition.

Preliminary data
In reference to the first hypothesis, the analysis of variance shows that between the ideological dimensions, only politics ($F=4.56, P<0.01$) and religion ($F=3.03, P<0.05$) appear to influence alcohol use in adolescents; between the interpersonal dimensions, only the family ($F=2.93, P<0.05$) seems to affect this risk behavior. The analysis of mean scores shows
The univariate effect shows how the identity influences interaction effect (Wilks’s lambda). MANOVA shows the main effect of identity (Wilks’s lambda). Does not seem to affect alcohol use in adolescents.

In confirmation of the second research hypothesis, the type of maternal parent does not seem to affect significantly the following constraints: distrust of others (F=4.90, P<0.01), relational addiction (F=5.11, P<0.01), perfectionism (F=3.20, P<0.05), fear of error (F=2.78, P<0.05), sense of inadequacy (F=2.95, P<0.05), and compulsion to provide care for others (F=3.83, P<0.05). Tukey’s post hoc shows that students in foreclosure status have the highest average scores in relational addiction, the fear of making mistakes, and the compulsion to care; students in achievement manifest a greater perfectionism; and those in moratorium perceive greater sense of inadequacy. The type of maternal parenting seems to affect significantly the following constraints: distrust of others (F=4.90, P<0.01), relational addiction

Table 1 M and SD of “the mind constraints” subscales in all participants

<table>
<thead>
<tr>
<th>Subscales</th>
<th>Males</th>
<th>Females</th>
<th>Levene’s test</th>
<th>Student’s test</th>
</tr>
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<tr>
<td></td>
<td>M</td>
<td>SD</td>
<td>M</td>
<td>SD</td>
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<tr>
<td>Catastrophism</td>
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<td>0.84</td>
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<td>Health apprehension</td>
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<td>0.90</td>
<td>2.50</td>
<td>0.93</td>
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<td>Distrust of others</td>
<td>3.22</td>
<td>0.86</td>
<td>0.31</td>
<td>0.72</td>
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<td>0.88</td>
<td>3.70</td>
<td>0.91</td>
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<td>0.92</td>
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<td>3.60</td>
<td>0.83</td>
<td>3.39</td>
<td>0.71</td>
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<td>0.96</td>
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<td>0.84</td>
<td>3.06</td>
<td>0.84</td>
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<td>0.72</td>
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<td>Failure</td>
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<td>0.99</td>
<td>2.85</td>
<td>0.93</td>
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<td>0.99</td>
<td>2.85</td>
<td>0.93</td>
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<td>2.65</td>
<td>1.06</td>
<td>2.86</td>
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<td>0.84</td>
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<td>Pessimism</td>
<td>3.07</td>
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<td>Distrust</td>
<td>2.81</td>
<td>2.00</td>
<td>2.50</td>
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<td>1.60</td>
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<td>0.70</td>
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Notes: *P<0.001, two-tailed; P<0.01, two-tailed; P<0.05, two-tailed. The research involved 198 Italian students (104 males and 94 females) in the 4th year (M=16.94 years, SD=0.35) and 5th year (M=17.94 years, SD=0.43) of senior secondary schools, who live in Caltanissetta, a town located in Sicily, Italy.

Abbreviations: df, degrees of freedom; M, mean; SD, standard deviation.
Table 2 Model summary of hierarchical regression analyses that predicts alcohol use in the group of adolescents

<table>
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<th>Model</th>
<th>Variable</th>
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<th>Adjusted $R^2$</th>
<th>SE</th>
<th>$\beta$</th>
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<th>$P$-value</th>
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<td>-1.59</td>
<td>0.11</td>
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<td>3.45</td>
<td>&lt;0.01</td>
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<td></td>
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<td>3.80</td>
<td>&lt;0.001</td>
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<td>0.11</td>
<td>1.55</td>
<td>0.12</td>
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<td>Maternal care</td>
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<td>-0.05</td>
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<td>Paternal control</td>
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<td>0.09</td>
<td>0.97</td>
<td>0.33</td>
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<tr>
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<td>Paternal care</td>
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<td>0.39</td>
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<td>Obsessions</td>
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<td>-0.07</td>
<td>-0.84</td>
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Notes: The research involved 198 Italian students (104 males and 94 females) in the 4th year ($M = 16.94$ years, SD = 0.35) and 5th year ($M = 17.94$ years, SD = 0.43) of senior secondary schools, who live in Caltanissetta, a town located in Sicily, Italy.

Abbreviations: $\beta$, beta standardized coefficients; M, mean; SD, standard deviation; SE, standard error; SES, socioeconomic status.

Discussion

The study investigates the possible relationship between identity development, parenting, and internalizing–externalizing symptoms during adolescence. It involves 198 Italian adolescents, aged 16–17 years, from public and private schools in Caltanissetta, Sicily, Italy. Hierarchical regression analysis was used to assess the predictive value of parenting for alcohol use and other variables. The results suggest that adolescents with neglectful parenting show higher scores in relational dependence, sense of failure, mistrust for others, perceptual social control, isolation, and ambivalence; otherwise, adolescents with neglectful parenting manifest higher levels of mistrust of others. In reference to the third hypothesis, MANOVA shows the effect of parenting (Wilks’ lambda = 0.65, $F=1.85$, $P<0.05$) on the following symptoms: catastrophism ($F=3.45$, $P<0.05$), health apprehension ($F=3.56$, $P<0.05$), distrust of others ($F=0.03$, $P<0.05$), relational addiction ($F=3.09$, $P<0.05$), emotional inhibition ($F=4.99$, $P<0.01$), superstition ($F=3.17$, $P<0.05$), failure ($F=3.78$, $P<0.05$), inadequacy ($F=4.83$, $P<0.01$), and social isolation ($F=2.99$, $P<0.05$), depending on other’s judgment ($F=5.05$, $P<0.01$) and relational dynamic ($F=3.18$, $P<0.05$). Tukey’s post hoc shows that adolescent boys with neglectful parenting have high scores in the aforementioned symptoms except two, sense of failure and inadequacy, which are manifested by boys with affectionate constraint parenting. It, therefore, seems to confirm the third research hypothesis.

In reference to the last hypothesis, hierarchical regression with separate blocks shows that the predictors of alcohol consumption are (Table 2): sex, age, SES, the level of depression, and entropy (21.2% of the overall variance explained). The data seem to confirm the last research hypothesis.
students, aged between 16 and 19, who live in Caltanissetta, a town located in Sicily, Italy.

As a partial confirmation of the first research hypothesis, identity seems to influence alcohol use in adolescents. In coherence with the literature, adolescents who confer greater importance to politics, religion, and family reduce their use of alcohol, although the dimension of friendship does not seem to influence the risk behavior. Probably, the partial confirmation of the hypothesis is due to the age of the participants, characterized by instability typical of adolescence.

As the second research hypothesis states, both identity and the type of parenting affect internalizing symptoms, in particular. Adolescents in the foreclosure status manifest greater compulsion to caregiving with a resulting relational addiction and fear of error, probably due to the lack of critical evaluation of the various identity alternatives. Students in moratorium status perceive a greater sense of inadequacy, typical of those who have started an exploration path of the possible identity alternatives, without assuming any commitment yet. At least, the adolescents in achievement show high levels of perfectionism; this finding could be explained by the fact that in Sicilian culture, roles within the family are highly emphasized and adolescents have a strong need to meet parental and social expectations. This process, which is very common among South Italians, to make a good impression (fare bella figura) when interacting with other people, is very much a matter of showing integrity and bringing people to have respect for them; when they are not able to adopt to social pressure—that is, when they make a “bad impression”—people feel ashamed. So, exposure to perfectionism and to an authoritarian parenting style may bring the adolescent to the perception of rigorous expectations, self-esteem linked to success, and fear of disappointing others.

In confirmation of the third hypothesis, adolescent boys with paternal parenting marked by excessive control would perceive a greater sense of failure and inadequacy in dealing with everyday problems, which is typical in adolescence.

The latest research hypothesis seems to be confirmed as well. Among the predictor variables to the use of alcohol, there are environmental and temperamental factors. In particular, it seems that the older kids with greater emotional inhibition and perception of external control consume more alcohol; such a risky behavior is shown mainly by people belonging to higher SES, or in families whose parents have a good level of education and culture, and high professional status, which is in disagreement with the international literature. In fact, there was little empirical evidence to support the commonly held view that social deprivation or low SES is associated with belated and reduced alcohol use. In reference to the relationship between low SES and alcohol consumption, there may be two opposing mechanisms. First, social deprivation is associated with almost all forms of morbidity and mortality. The second mechanism underlines that individuals with more money can afford more alcohol because there is a consistent inverse relationship across time between the cost of alcohol and the amount consumed. Our data support the second mechanism and appear to confirm the recent research conducted by the Organization for Economic Cooperation and Development, according to which in economically developed countries, such as Italy, the consumption of alcohol is higher among young people.

**Conclusion**

Based on the results described herein, it is appropriate to emphasize the limits of this work, namely, the absence of a sampling method, which prevents the presence of a representative sample, generalization of the results, and external validity. An additional limitation is the absence of a longitudinal-type study design, which is more suitable for research involving adolescents and their identity development.

Finally, the absence of a cross-sectional survey method makes it difficult to determine if the adverse relational family conditions (eg, low support or high control) are antecedents, links, or consequences of the antisocial behavior of children. Therefore, identification of risk factors in individuals or in their environment is not enough to predict the future development, but it is necessary to consider the way in which certain features interact with the environment, modifying it and being, in turn, influenced by it. It is necessary, in other words, to take into consideration the features of the subject, the features of the environment, and the way in which these two sets of influences interact over time.

Researchers have underlined the importance of parent training interventions for adolescents with alcohol use and comorbidity of externalizing and internalizing disorders. Participation in parent training, in fact, increased parental monitoring and decreased family conflict adolescent substance use and adolescent behavior problems.

**Disclosure**

The authors report no conflicts of interest in this work.

**References**


