The present study examines psychopathic deviate tendency and psychopathology relationships and the possible gender differences in them in an Iranian adolescents and youth sample. The sample included 106 adolescents (55 females and 51 males) and 94 youth (45 females and 49 males) that were randomly selected from Eghlid city, Fars province, Iran. We speculated a possible linkage between psychopathology and psychopathic deviate tendency among adolescents and youth on the basis of developmental psychopathology and related literature. A demographic questionnaire, the Minnesota Multiphasic Personality Inventory–2, scale–4, and the Symptom Check List 90 Revised were used in this study. Analysis indicated that psychopathic deviate tendency and psychopathology indices were linearly related in adolescents and youth. There are significant positive correlation coefficients between the psychopathic deviate tendency and psychopathology including somatisation, obsessive-compulsive disorder, anxiety, interpersonal sensitivity, aggression, phobia, paranoid ideation, psychosis, atypical factors and SCL–90–R. However, significant correlations between psychopathic deviate tendency, somatisation and phobia are elements that give a new insight into this research. A multivariate analysis of variance conducted by gender-age group and gender-age group interaction as independents and the psychopathic deviate tendency and psychopathology indices as dependents variables that reject their significant effects in both dependents’ variables. Finally, the multiple regressions indicated that paranoid ideations, somatisation and aggression, somatisation, depression, and somatisation predict psychopathic deviate tendency in females, males, adolescence, youth, and total sample respectively.

**Keywords:** psychopathic, somatisation, obsessive-compulsive, anxiety, interpersonal sensitivity, aggression, phobia, paranoid, psychosis, adolescents, youth
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S. KHODARAHIMI

Zusammenhänge zwischen psychopathischer Neigung zu Devianz und Psychopathologie
bei einer Stichprobe von iranischen Jugendlichen und jungen Erwachsenen: Geschlechts-
spezifische Unterschiede und Prädiktoren: Die vorliegende Studie untersucht die Zusammen-
hänge zwischen psychopathischer Devianz und Psychopathologie und mögliche geschlechts-
spezifische Unterschiede bei einer Stichprobe von iranischen Jugendlichen und jungen
Erwachsenen. Die Stichprobe bestand aus 106 in der iranischen Stadt Eghlid in der Provinz
Fars zufällig ausgewählten Jugendlichen (55 Mädchen und 51 Jungen) sowie 94 jungen Er-
wachsenen (45 Frauen und 49 Männer). Aufgrund der Erkenntnisse der Entwicklungspsycho-
pathologie und der einschlägigen Literatur nahmen wir an, dass bei Jugendlichen und jungen
Erwachsenen ein Zusammenhang zwischen Psychopathologie und der Neigung zu psycho-
pathischer Devianz bestehen könnte. Bei der Untersuchung wurden ein demographischer
Fragebogen, die 4. Skala des Persönlichkeitstests Minnesota Multiphasic Personality Inventory
– 2 (MMPI–2) sowie die Skala des Symptom Check List 90 Revised (SCL–90–R) verwendet.
Die Analyse ergab, dass bei Jugendlichen und jungen Erwachsenen ein linearer Zusammen-
hang zwischen Neigung zu psychopathischer Devianz und psychopathologischen Faktoren
besteht. Signifikant positive Korrelationskoeffizienten sind zu finden für psychopathische Nei-
gung zu Devianz und psychopathologische Faktoren wie Somatisierung, Zwang, Angst, inter-
personale Sensibilität, Aggression, Phobie, Paranoia, Psychose, atypische Faktoren bzw. die
gesamte SCL–90–R-Skala. Als neues Ergebnis in diesem Forschungsbereich besonders hervor-
zuheben ist die Korrelation zwischen Neigung zu psychopathischer Devianz und Somatisie-
rung bzw. Phobie. Bei der multivarianten Varianzanalyse, bei der als unabhängige Variablen
das Geschlecht, die Altersgruppe sowie die Interaktion zwischen Geschlecht und Altersgruppe,
as abhängige Variablen die Neigung zu psychopathischer Devianz und die psychopathologi-
schen Parameter verwendet wurden, ergab sich eindeutig, dass diese Faktoren keine wesentli-
che Rolle bezüglich einer der abhängigen Variablen spielten. Des Weiteren zeigte die multiple
Regressionsanalyse, dass die Neigung zu psychopathischer Devianz bei den Mädchen anhand
paranoierer Denkinhalte, bei den Jungen anhand von Somatisierung und Aggression, bei den
Jugendlichen anhand von Somatisierung, bei den jungen Erwachsenen anhand von Depression
und in der Gesamtstichprobe anhand von Somatisierung vorhersagbar ist.

Schlüsselbegriffe: Psychopathie, Somatisierung, Zwang, Angst, interpersonale Sensibilität,
Aggression, Phobie, Psychose, Jugendliche, junge Erwachsene

1. Introduction

Psychopathic deviate, sociopathy, aggression, violence and antisocial behavior in ado-
lescents and the young may impede their global success in the future, and it is harmful
both for them and society. Historically, the origins of contemporary conceptualisa-
tions of psychopathy could be traced to H.M. CLECKLEY’s (1976) influential mono-
graph The Mask of Sanity. He regarded psychopathy as an alloy of personality fea-
tures such as deficient affective response, superficial charm, and severe behavioral
maladjustment in irresponsibility and promiscuity forms. His classic conceptualisation
of psychopathy composed of both behavioral and personality characteristics. Psycho-
pathic tendency is mostly directed to causing harm to others, but some scholars also
include suicide and self-mutilation as forms of harm to self. Acts that intentionally
cause physical hate or injury to others would fit within most definitions. A psycho-

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pathic construct involves a set of traits and behaviors that predispose the individual to engage in dishonest, hurtful, unfaithful behavior, and at times it is dangerous to one’s own mental health. Thus, the opposite of psychopathy might be called the scrupulosity character. The psychopathy defined as a psychological gratification in destructive, criminal, sexual, or aggressive impulses and the inability to learn from past mistakes, seems to accompany any mental disorder symptom. In its full form, psychopathy is referred to as antisocial personality disorder in mental disorders (American Psychiatric Association 2004). It is characterised by a general tendency to disregard laws and rules, frequent reciprocal difficulties in intimate relationships, disturbed internalisation of moral standards and codes, and a diminished sensitivity to the needs and rights of the others. Psychopaths often show aggressive and violent behavior, and are over-represented among criminals and prisoners. It also linked with problematic, unethical, and abusive conduct in workplace and social systems. Psychopathy, as an engendered construct, is much more common among men than women (WIDGER & COSTA 1994). Psychopathy has an early childhood onset and long enduring course through adulthood (FORTH & BURKE 1998). HARRIS et al. (1994) argued that its early onset as an idiosyncratic feature could differentiate this syndrome from the others’ personality and mental disorders. Specifically, children with previous attention deficit, hyperactivity, impulsivity, and the conduct problems resembled adult psychopaths more and have been categorised as fledgling psychopaths (KAZDIN 1987, 1993; GRESHAM et al. 2000). Altogether, these findings adhered to a psychopathy and psychopathology linkage implicitly.

Psychopathy has an overt or covert manifestation which is verbally and physically harmful to other people, animals, and properties, including behaviors that violate social expectations in any given environment; then it is destructive to the mental health of individual, family, and friends, and the community. Although the study of psychopathy and antisocial behavior is the most abundant (COSTELLO & ANGOLD 2000), there is a lack of evidence for its relationship with individuals’ mental health status. VAUGHAN & OLDHAM (1997) divide psychopathy into two components: the presence of antisocial, and the absence of prosocial behavior. They noted that the presence of antisocial components includes anger, impulsivity, aggression, and disobedience. But a prosocial behavior deficit component involves lack of communication, affirmation, and cooperation skills. They concluded that psychopathy is associated with poor modulation of emotions, anger, difficulty delaying gratification, novelty seeking, and lack of prosocial behaviors. With regard to their conceptualisation, it would predict a negative relationship between psychopathy and individual mental well being.

Similarly, NIMH (1999) revealed that the development of psychopathy in adolescence is linked to mental health problems, particularly depression and externalising behaviors. LIPSEY & DERZON (1998) in a meta-analysis of 34 prospective longitudinal studies of antisocial behavior found that having a psychological disorder was the strongest predictor of psychopathy in adolescence and young adulthood. It suggested that the older the age of onset, the fewer the number of psychopathic adolescents and youths will engage in seriously violent and antisocial behavior. Research indicated that psychopathic individuals have other mental disorders such as anxiety and depres-
sion (Kutash & Rivera 1996; Kessler & Walters 1998; Nimh 1999; Benning et al. 2005). In addition, psychopathy is more closely linked to psychopathological variables in girls than in boys, and it related to the dissociative and depressive symptoms among girls and boys respectively (Chabrol et al. 2009). Thus, psychopathy may play a crucial role in psychopathy among adolescents and in both genders.

Moreover, research supported the three reflecting affective, interpersonal, and behavioral symptoms components in psychopathy (Hall et al. 2004). Psychopathic behavior was associated with negative emotionality, emotional disinhibition, reactive aggression, and poor adaptive functioning. Psychopathic violence was characterized as predatory or pillaging aggression, as opposed to affective or sentimental aggression (Meloy 1988). Severe psychopathic violent conduct in men has been empirically linked to a serious mental illness, i.e. psychosis and violence towards others (Dean et al. 2007). A recent study showed very high levels of psychiatric morbidity, psychotic, mood and personality disorders at a very high rate in women who had been incarcerated for a major violent offence (Logan & Blackburn 2009). On the other hand, mentally healthy individuals enjoy a positive quality of life; function well in different situations; and are free of symptoms of psychopathology (Hoagwood et al. 1996).

In sum, based on a life course model of antisocial behavior (Eddy & Reid 2001) it can be expected that mental illness can occur at any point in time during a child’s life, and it may reactivate the childhood precursors of psychopathy in later stages. However, there is no single theory for psychopathy that explains psychopathy and psychopathology relationships in adolescence and youth periods. The developmental psychopathology theories implicitly suggest that psychopathy has various risk factors, and in return it endangers individual’s mental health. For example, dysfunctional aspects of family life such as parental discord and parents’ psychopathology can predispose people for antisocial personality disorders in later life (Rutter 1979). Alternatively, some evidence designated two ways for psychopathy vulnerability in adolescents: (1) to encourage such persons to interact with better adapted youths under supervision of a mental health professional, and (2) improving parenting skills during childhood (Feldman et al. 1983; Patterson et al. 1993). Recent scholars suggest that better peer relations serve as buffering against psychopathy during adolescence (Weikart 1998).

Therefore, we speculated a possible linkage between psychopathology and a psychopathic deviate tendency among adolescents and youth which originated in the developmental psychopathology and related literature. The main object of the present study is to investigate psychopathology and psychopathic deviate tendency relationships in Iranian adolescents and a youth sample. The first hypothesis of this research study is that psychopathology and psychopathic deviate tendencies have significant relationships among adolescents and youth. The second hypothesis of this research study is that there are significant differences among adolescents and youth in psychopathology and psychopathic deviate tendency in both males and females. The third hypothesis of this project is that psychopathological indices will predict psychopathic deviate tendencies in the Iranian sample.
2. Method

2.1. Participants

The research population included adolescents (11–19 years old) and youth (20–29 years old) in Eghlid city, the north of the Fars province of Iran, where the Islamic Azad University – Eghlid Branch is located. The sample included 106 adolescents ($N = 106$, $F = 55$, $M = 51$) and 94 youth ($N = 94$, $F = 45$, $M = 49$). Participants were randomly selected from adolescents and the youth population from Eghlid city. After informed consent was acquired, a demographic questionnaire and two inventories were completed by the participants.

2.2. Instruments

The demographic questionnaire included age, gender, level of education, marital status, socioeconomic status, ethnicity and the occupation of parents. The two inventories used were (1) the Minnesota Multiphasic Personality Inventory–2, Scale–4 (MMPI–2, Scale–4), and (2) the Symptom Check List 90 Revised (SCL–90–R).

*Minnesota Multiphasic Personality Inventory–2 (MMPI–2, Scale 4–PD):* The MMPI developed by Hathaway and McKinley (1940), is one of the most frequently used clinical tests. Similarly, MMPI–2 was invented for both clinical and non-clinical applications (BUTCHER et al. 1989). MMPI–2 is a valid revision and expansion of the original MMPI, and they assert that continuity with the previous empirical literature has been assured. The original validity and clinical scales have been kept virtually intact in the MMPI–2. According to them, new norms provide a sounder comparative base. PARKER et al. (1988) found similar results, with reliability coefficients averaging 74. Comparable results were found for the MMPI–2 (BUTCHER et al. 1990). HAS-KELL (1996) showed that there are no significant differences between the multi ethnic groups on clinical item types of MMPI–2 for the Middle East including Iranian. MMPI–2 mostly employed the standardised psychological test for mental disorders in Iran for both screening and research purposes (MOUSAVINASAB et al. 2007; KHODARAHIMI 2010). The MMPI–2 has been validated in Iran and multiple groups have received training at numerous academic centers resulting in excellent inter-rater reliability (DUCKWORTH & ANDERSON 1995). Also MMPI–2 validity using clinical endpoint analysis in areas of cultural diversity was affirmed in Iran (MOKHBER et al. 2008).

Here, we used MMPI–2, Scale 4 or Psychopathic Deviate. This scale measures conflict, struggle, anger and respect for society’s rules. The PD scale was originally

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1 PhD Dissertation in Psychology, Texas Tech University, USA.
developed to identify patients diagnosed as a psychopathic personality, asocial or amoral type. General social maladjustment and the absence of strongly pleasant experiences are assessed by the 50 items included in Scale 4. Scores on Scale 4 tend to be related to age. All 50 items in the original scale have been retained in the MMPI–2 validation in the Iranian population. Often Iranian adolescents and college students scoring in the PD scale have a T-score range of 55 to 60. This subscale operates somewhat as a measure of rebelliousness, the higher scorers show rebellion and its lower scorers indicate an acceptance of authority and the status quo. High scorers are very likely to be diagnosed as having some form of psychopathic personality disorder. But low scorers are mostly described as being conventional, conforming, and submissive.

**Symptom Check List 90 Revised (SCL–90–R):** The SCL–90–R invented for mental health screening purpose by DEROGATIS in 1977. SCL–90–R contained 90 items and including: Somatisation (12 items), obsessive-compulsive (9 items), anxiety (10 items), interpersonal sensitivity (9 items), depression (13 items), aggression (6 items), phobia (7 items), paranoid (6 items), psychosis (10 items), and atypical (7 items) scales (CYR et al. 1985). In addition, it has a total scale score index. SCL–90–R reliability was confirmed by Derogatis in 1976. SCL–90–R reliability fluctuated from \( r = 0.90 \) for depression factor as the highest and \( r = 0.77 \) as the lowest for psychosis factors. SCL–90–R validity with MMPI was the highest for depression (\( r = 0.73 \)) and the lowest (\( r = 0.36 \)) for phobia factors. Marashi (1995)\(^3\) was reported SCL–90–R reliability by internal consistency alpha as follows: Somatisation (\( \alpha = 0.84 \)), obsessive-compulsive (\( \alpha = 0.91 \)), interpersonal sensitivity (\( \alpha = 0.82 \)), depression (\( \alpha = 0.93 \)), anxiety (\( \alpha = 0.86 \)), aggression (\( \alpha = 0.90 \)), phobia (\( \alpha = 0.83 \)), paranoid (\( \alpha = 0.81 \)), psychosis (\( \alpha = 0.84 \)) and total scale (\( \alpha = 0.98 \)). Additionally, SCL–90–R was standardised for the Iranian population and its validity and reliability affirmed too (FARJAD 1995; KHODARAHIMI et al. 2009).

### 3. Findings

Initial analysis of the data included a correlation coefficient that was conducted to evaluate relationships between the psychopathic deviate tendency and psychopathology indices, i.e. somatisation, obsessive-compulsive, anxiety, interpersonal sensitivity, aggression, phobia, paranoid, psychosis, atypical factors and SCL–90–R total score. This was computed among the 12 variables in an effort to assess to what degree these quantitative variables were positive and linearly related in the sample. Thus, analysis indicated that the psychopathic deviate tendency and the psychopathology indices were significantly and linearly related in adolescents and youth. The Bonferroni approach was used as a control for Type I effort across the 12 correlations, a \( p \)-value of less than 0.05 was used as an indicator for significance (Table 1).

### Table 1
Psychopathic and psychopathology indices correlations

<table>
<thead>
<tr>
<th>Factors</th>
<th>Somatication</th>
<th>Obsessive-Compulsive</th>
<th>Interpersonal Sensitivity</th>
<th>Depression</th>
<th>Anxiety</th>
<th>Aggression</th>
<th>Phobia</th>
<th>Paranoid Ideations</th>
<th>Psychosis</th>
<th>Atypical</th>
<th>SCL–90–R</th>
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</thead>
<tbody>
<tr>
<td>Psychopathic</td>
<td>0.291</td>
<td>0.168*</td>
<td>0.246</td>
<td>0.290</td>
<td>0.173*</td>
<td>0.177*</td>
<td>0.156</td>
<td>0.194</td>
<td>0.193</td>
<td>0.182*</td>
<td>0.261</td>
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<tr>
<td>Somatication</td>
<td>0.606</td>
<td>0.578</td>
<td>0.686</td>
<td>0.635</td>
<td>0.470</td>
<td>0.631</td>
<td>0.453</td>
<td>0.584*</td>
<td>0.667</td>
<td>0.831</td>
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<td>Obsessive-</td>
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<td>Compulsive</td>
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<td>Interpersonal</td>
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<td>Sensitivity</td>
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<td>Depression</td>
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<td>Anxiety</td>
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<td>Aggression</td>
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<td>Phobia</td>
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<td>Paranoid</td>
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<td>Ideations</td>
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<td>Psychosis</td>
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<td>Atypical</td>
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</table>

$p ≤ 0.01$  $^* p ≤ 0.05$
The second hypothesis of this research study is that age group, i.e. adolescence and youth periods, and gender plays a significant role in psychopathic deviate tendency and psychopathology. A t-test for independent groups was conducted to evaluate the effects of age group and gender for both the psychopathic deviate tendency and psychopathology indices separately, and the initial analysis did not show any significant effects for both of the age groups and gender. Additionally, to examine possible gender differences and age groups interaction, a multivariate analysis of variance (MANOVA) was conducted by gender, age group and gender-age group interaction as independents and the psychopathic deviate tendency and psychopathology indices as dependents variables. An overall multivariate effect was found for gender (Wilks’ $k = 0.952; F(11, 186) = 0.860; p < 0.581$), age group (Wilks’ $k = 0.940; F(11, 186) = 1.070; p < 0.388$), and gender–age group interaction (Wilks’ $k = 0.949; F(11, 186) = 0.904; p < 0.538$), which rejects their significant effects in both psychopathic deviate tendency and psychopathology indices variables.

Finally, multiple regression analyses were conducted to evaluate the relationships of psychopathology indices (11 factors) and psychopathic deviate tendency by gender, age group and total sample. Findings indicated: (1) paranoid ideations (13%), somatisation and aggression (16%), (2) somatisation (4%) and depression (18%), and (3) somatisation (8%) was predicted in psychopathic deviate tendency in females, males, adolescence, youth, and total sample respectively (Table 2).

<table>
<thead>
<tr>
<th>Groups</th>
<th>Entered variables</th>
<th>$R$</th>
<th>$R^2$</th>
<th>Beta</th>
<th>$T$</th>
<th>$P$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>Paranoid Ideations</td>
<td>0.365</td>
<td>0.133</td>
<td>0.370</td>
<td>3.884</td>
<td>0.0001</td>
</tr>
<tr>
<td>Male</td>
<td>Somatisation</td>
<td>0.304</td>
<td>0.092</td>
<td>0.211</td>
<td>3.154</td>
<td>0.002</td>
</tr>
<tr>
<td></td>
<td>Somatisation &amp; Aggression</td>
<td>0.401</td>
<td>0.161</td>
<td>0.311</td>
<td>4.21</td>
<td>0.0001</td>
</tr>
<tr>
<td>Adolescence</td>
<td>Somatisation</td>
<td>0.212</td>
<td>0.045</td>
<td>0.126</td>
<td>2.207</td>
<td>0.029</td>
</tr>
<tr>
<td>Youth</td>
<td>Depression</td>
<td>0.429</td>
<td>0.184</td>
<td>0.259</td>
<td>4.551</td>
<td>0.0001</td>
</tr>
<tr>
<td>Total sample</td>
<td>Somatisation</td>
<td>0.291</td>
<td>0.084</td>
<td>0.183</td>
<td>4.273</td>
<td>0.0001</td>
</tr>
</tbody>
</table>

4. Discussion

The results from this study in the first hypothesis demonstrated that there are significant positive correlation coefficients between the psychopathic deviate tendency and all of the psychopathology indices involving somatisation, obsessive-compulsive, anxiety, interpersonal sensitivity, aggression, phobia, paranoid, psychosis, atypical fac-
tors and SCL–90–R in this particular sample. The present study supported psychopathic deviate tendency and psychopathology linkage in Iranian adolescents and the youth sample.

Present findings are in line with HARE’s (2003) conceptualisations that assumed psychopathy to include a range of mental symptoms, i.e. a grandiose sense of self-worth, impulse control problems, irresponsibility, inability to tolerate boredom, pathological narcissism, shallow affect, aggressive or violent tendencies, lack of empathy, a sense of extreme entitlement, poor judgment, failure to learn from experience, lack of personal insight, and failure to follow any life plan. Also, these findings are congruent with previous literature that confirmed relationships between psychopathy and anxiety, depression, impulsivity, aggression, paranoia, interpersonal conflicts, and psychosis disorders (ZAGON & JACKSON 1994; HARE 1998; FRICK et al. 1999; NIMH 1999; LORBER 2004; WILLIAMS & PAULHUS 2004; DEAN et al. 2007; CHABROL et al. 2009; LOGAN & BLACKBURN 2009). However, significant correlations between psychopathy deviate tendency, somatisation and phobia are something that highlights a new insight into this research. It can show the comorbidity of mental health and psychopathy in adolescents and youth, and would be related to psychopathy cultural contexts in Iran.

In addition, the results from this study in the second hypothesis indicated that gender, age group and their interaction does not have any significant effects on either the psychopathic deviate tendency or the psychopathological indices. However, this finding is in contrast to previous outcomes (EDDY & REID 2001; GLENN et al. 2007).

Finally, the results from the multiple regressions in the third hypothesis found that paranoid ideations, somatisation, aggression and depression predicted psychopathic deviate tendency among females, males, adolescents, youth and total sample, respectively. Here, all independent variables had significant positive relationships to the psychopathic deviate tendency. It seems that these psychopathological predictive factors indicate both internal and external manifestations of psychopathy. It is thought that when individuals typically make external interpretations regarding their behavior, it would be expected that paranoid ideations and aggression are more related to psychopathy. But while the individuals typically use internal attributions respecting their performance, it would anticipate that somatisation and depression have a closer relationship to psychopathy. We can explain these predictive factors as internalisation and externalisation aspects of a psychopathic construct that can be traced to infantile and childhood experiences, i.e. identification, attachment, psychosocial and psychosexual development (BANDURA 1977; BOWLBY 1980, 1988; SHAVER & CLARK 1994). This is the reason why these constructs are responsible for a wide variety of a child’s repertoire of behavior. Another plausible explanation for the aforementioned finding is specific socio-cultural underpinnings of violent behavior across societies. Children are more likely to imitate the behavior of those that they consider to be in

a position of power or who possess objects or characteristics that they would someday like to have. Psychopathy is but one of a full repertoire of coping skills that the child has identified over the years with some significant figures and may select them from the familial or other social contexts. However, if in any given situation, when the child-as-adult has no other skills that help to prove successful encounters in resolving conflicts, then he or she will grasp the introjected model of psychopathy as a potential means to cope with present frustrations. In conclusion, current research adds to the psychology literature because of psychopathy and psychopathology relationships among adolescents and youth. However, the present research is limited because of a single measure used to assess psychopathy deviate tendency, and further research may apply other well established scales such as the Psychopathy Checklist-Revised (COOKE et al. 2001). It is expected that further research will be carried out to investigate the roles of socio-cultural structures in psychopathology and psychopathic tendency interrelatedness in Iranian society. Finally, it is anticipated that psychopathy dichotomies i.e., behavioral and personality, antisocial and prosocial, internalisation and externalisation, both covert and open, will be taken into consideration in future cross cultural and clinical studies.

References


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