Family profiles in eating disorders: family functioning and psychopathology

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Abstract: Research has studied family functioning in families of patients suffering from eating disorders (EDs), particularly investigating the associations between mothers’ and daughters’ psychopathological symptoms, but limited studies have examined whether there are specific maladaptive psychological profiles characterizing the family as a whole when it includes adolescents with anorexia nervosa (AN), bulimia nervosa (BN), and binge eating disorder (BED). Through the collaboration of a network of public and private consultants, we recruited n=181 adolescents diagnosed for EDs (n=61 with AN, n=60 with BN, and n=60 with BEDs) and their parents. Mothers, fathers, and youths were assessed through a self-report measure evaluating family functioning, and adolescents completed a self-report questionnaire assessing psychopathological symptoms. Results showed specific family functioning and psychopathological profiles based on adolescents’ diagnosis. Regression analyses also showed that family functioning characterized by rigidity predicted higher psychopathological symptoms. Our study underlines the importance of involving all members of the family in assessment and intervention programs when adolescent offspring suffer from EDs.

Keywords: family functioning, eating disorders, adolescents, psychopathological risk

Introduction
Research has shown that eating disorders (EDs) and psychopathological symptoms among female adolescents are associated with problematic family functioning.1–4 EDs are common and serious mental disorders characterized by abnormal eating habits and severe subjective concern about body weight or shape, which typically occur at the beginning of puberty or in late adolescence.5 In fact, early adolescence and puberty (11–14 years of life) represent transitional phases of life characterized by physical, psychological, and social modifications.6–8 In these stages, teenagers experience major and fast body changes, such that puberty could become a period of concern for body size and shape.9 Moreover, the brain and the cognitive functions mature, there is an increased awareness of societal pressures for thinness and an increased concern about peer acceptance.10,11 For these reasons, although EDs can occur in individuals of all ages, adolescence represents a peak period for their onset.12 Recent epidemiological research has shown that prevalence of EDs among adolescents is estimated to be 0.3% for anorexia nervosa (AN), 0.9% for bulimia nervosa (BN), and 1.6% for binge eating disorder (BED).13,14 Notwithstanding an increase of incidence of EDs in adolescent males over the last few decades,15 EDs predominantly affect female adolescents, with a rate of 5.7% for girls versus 1.2% for boys;16 moreover, adolescent girls usually show...
more severe symptoms of AN, BN, and BED if compared to same-age boys.17

As suggested by many studies, based on a transactional theoretical framework, diagnosis of EDs in early adolescence is associated with both specific maladaptive family functioning and individual vulnerability.1,18 In particular, with regard to individual characteristics, although most studies have demonstrated a possible comorbidity between EDs and other psychiatric disorders (e.g., borderline personality disorders, avoidant personality disorders and depression [DEP]),19,20 other studies have shown significant associations also with various subclinical forms of psychological difficulties.21–23 Research has widely demonstrated that eating pathology in adolescent females is associated with emotional regulation difficulties, which are in turn correlated with obsessive–compulsive/perfectionistic and impulsive personality traits.24–26 Furthermore, empirical studies have evidenced that emotional disturbance can be a predisposing factor for internalizing and externalizing problems in adolescents affected by EDs.27 In this regard, genetic and epigenetic research have shown that EDs are associated with both internalizing problems (e.g., anxiety [ANX], withdrawal, and depressive symptoms) and externalizing difficulties, including under-controlled, impulsive, and disinhibited cognitions and behaviors.28–30 With regard to family factors, recent studies have found associations between the difficulties of adolescents with EDs and family functioning, but no study, to our best knowledge, has investigated the impact of family psychopathological profiles on the adolescents’ psychopathological symptoms, differentiating for different types of EDs, during adolescence.

Indeed, increased demand for autonomy, which characterized the adolescence phase,31 fosters a reorganization of family functioning,32 and in particular, empirical studies have shown that various characteristics of family functioning (e.g., the presence of excessive dependence on other family members, low flexibility, poor communication, and avoidance of conflict) are associated with unhealthy weight-related behaviors, disordered eating behaviors,33 and higher ED psychopathology.34,35 especially among daughters.36,37 It must be acknowledged that family pathology may be a result of the offspring disorder rather than its cause.38 Within family system theory, Minuchin et al39,40 have defined these families as “psychosomatic families”,41 highlighting that they are characterized by high levels of overprotectiveness, enmeshment, rigidity, and lack of conflict resolution, although efforts to empirically identify the psychosomatic family have generally been unsuccessful.42 Furthermore, according to Olson’s Circumplex Model, these families may show unbalanced levels of cohesion (enmeshed families) and flexibility (rigid families).43 The experience of unsatisfying family relationships has been suggested to be associated in offspring with many psychological dimensions, such as significant body dissatisfaction, the beauty ideal, maturity fears, interpersonal safety, perfectionism, and self-awareness.34,44 Moreover, Kivisto et al45 found that adolescents who perceived higher family enmeshment also demonstrated greater emotional dysregulation in several domains, such as negative global appraisals of distress tolerance and a stronger increase in subjective negative mood. In a recent study, we investigated the differences in perceptions of family functioning of adolescents with EDs and their parents in a developmental psychopathology framework.46 This study found that different perceptions of family functioning and peculiar psychopathological vulnerabilities were associated with the diagnosis of ED of adolescents.47–49

Based on the abovementioned premises and on our previous results, but building on a systemic-relational framework and assessing a new sample of adolescents and parents, in the present study, we aimed to assess the functioning of families with adolescents with EDs and to verify whether the characteristics of family functioning are associated with a specific form of ED in their offspring and with adolescents’ psychopathological profiles.

Methods

Participants

Among the total number of female adolescents (N=551; age range: 14–17 years) who visited a network of public and private consultants in central Italy, requesting clinical support for disordered eating, over a 1-year period (from January 2014 to February 2015), 329 adolescents were diagnosed by a group of trained psychologists for EDs according to the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5) criteria and recruited for this study.50 From this sample, n=86 adolescents were diagnosed in comorbidity with other psychiatric disorders (n=42 with ANX disorders, n=31 with borderline personality disorder, and n=13 with DEP) and were excluded from the present study to remain focused on specific features of EDs. The sample fitting the inclusion criteria (n=239) was balanced for age and diagnosis, resulting in n=181 female adolescents (average age=14.09 years), diagnosed with AN (n=61), BN (n=60) and BED (n=60).

The families were 93.92% Caucasian, and most of the families (88.95%) had a middle–middle/middle–high socioeconomic level according to the Hollingshead’s social status level.
index. A large majority (92.82%) of families were intact family groups and lived with both parents. In all, 87% of adolescents were first-born children for both parents.

Procedure
The research described here was approved by the ethics committee of the Psychology Faculty at Sapienza, University of Rome, before the start of the study and was in accordance with the Declaration of Helsinki. After the first assessment interview and before starting the treatment plan, all adolescents and their families agreed to participate in the study (no attrition was found). All parents signed informed consents, and adolescents gave their assent. Researchers in person administered the self-report questionnaires (described later), and adolescents and their parents filled out the questionnaires independently. Parents and adolescents filled out the Family Adaptability and Cohesion Evaluation Scale (FACES), and adolescents also completed the Symptom Checklist-90 Items-Revised (SCL-90-R). All measures were completed at the time of distribution.

Measures
The SCL-90-R is a 90-item self-report symptom inventory designed to measure psychological symptoms and psychological distress. The SCL-90-R is rated on a Likert scale of 0 (not at all) to 4 (extremely) and asks participants to report whether they have suffered in the past week from symptoms that are scored and interpreted in terms of nine dimensions: somatization (SOM; e.g., headaches), obsessive-compulsivity (O-C; e.g., unwanted thoughts, words, or ideas that would not leave your mind), interpersonal sensitivity (I-S; e.g., feeling critical of others), DEP (e.g., loss of sexual interest or pleasure), ANX (e.g., nervousness or shakiness inside), hostility (HOS; e.g., feeling easily annoyed or irritated), phobic anxiety (PHOB; e.g., feeling afraid in open spaces or on the streets), paranoid ideation (PAR; e.g., feeling others are to blame for most of your troubles), and psychoticism (PSY; e.g., the idea that someone else can control your thoughts). Furthermore, it is scored on three global indices of distress, Global Severity Index (GSI), Positive Symptom Distress Index (PSDI), and Positive Symptom Total (PST). Prunas et al demonstrated a satisfactory internal consistency of the Italian version of the SCL-90-R in adolescents and adults (α coefficient, 0.70–0.96). Scores higher than the clinical cut-off (≥1 in GSI) indicate psychopathological risk.

The FACES-IV is a self-report questionnaire that assesses adolescents’ and parents’ perceived family functioning. It is composed of 42 items rated on a Likert scale of 1 (strongly disagree) to 5 (strongly agree). The FACES-IV is scored on six scales: two balanced scales, cohesion and flexibility, assessing central–moderate areas and four unbalanced scales, enmeshed, disengaged, chaotic, and rigidity, assessing the lower and the upper ends of cohesion and flexibility. Higher scores on the balanced scales are linked with higher levels of adaptive family functioning, while higher scores on the unbalanced scales indicate more problematic family functioning. In the present study, reliability of the six FACES-IV scales was as follows: enmeshed=0.78, disengaged=0.86, balanced cohesion=0.87, chaotic=0.85, balanced flexibility=0.84, and rigid=0.85. The α reliability was very good for all six scales.

In addition, two additional scales within the FACES-IV battery have been included: Family Satisfaction Scale (FSS) and Family Communication Scale (FCS). The FCS is a 10-item scale developed to measure communication in families with an adolescent, which can be used with a variety of family forms, and families at various life-cycle stages related to the Circumplex Model. The internal consistency reliability of the FCS is 0.90 and the test–retest reliability is 0.86. In this study, internal consistency reliability is 0.84. The FSS is a 10-item scale, developed by Olson in relation to the Circumplex Model, and it is intended as a part of FACES-IV. The scale assesses the degree of satisfaction with aspects related to family cohesion and flexibility. The FSS has an alpha reliability of 0.93 and test–retest reliability of 0.85. In this study, internal consistency reliability is 0.91 and we used the normative scores of the Italian version of FACES-IV and family members’ scores were averaged to yield an overall family score.

Statistical analysis
The statistical package SPSS 23.0 was used for all analyses. Adolescents’, mothers’, and fathers’ scores on FACES-IV were coded in accordance with the author’s instructions.

In order to assess family functioning, analysis of variance (ANOVA) was conducted identifying the groups (Group A: subjects with AN, Group B: subjects with BN, and Group C: subjects with BED) as the independent variables, and all of the dimensions of the FACES-IV were identified as the dependent variables. Families’ scores were compared with the mean scores of the Italian population.

ANOVA was conducted to verify possible significant differences between the three study groups on adolescents’ psychopathological risk. The post hoc analyses were conducted using the Scheffé’s method. To evaluate the clinical relevance of the scores identified, cutoff values for the Italian population were used. Finally, to evaluate the possible
predictive power of family functioning on adolescents’ psychopathological risk in the different groups, a series of hierarchical regressions were conducted, also assessing the possible effects of interaction. Missing data (2% for each instrument) for all applicable analyses were corrected using multiple imputations in the SPSS software (Version 23.0).

**Results**

**Assessment of family functioning**

To verify a possible significant difference on family functioning in families with adolescents diagnosed with AN, BN, and BED, an ANOVA was conducted considering the mean scores in the perception of family functioning of fathers, mothers, and adolescents on FACES-IV in Groups A, B, and C. Figure 1 shows family functioning profiles of families with adolescents diagnosed with different EDs.

As it is possible to see, there are differences in family profiles between the three diagnostic groups. Furthermore, all family profiles diverge from the profile identified by Olson for balanced families. Table 1 lists significant differences between the mean scores of the three groups and those of balanced families.

Results of ANOVA showed that families with adolescents diagnosed with AN (Group A) showed higher scores than other groups on FACES-IV subscales enmeshment ($p<0.001$) and rigidity ($p<0.001$ compared to Group C; $p<0.05$ compared to Group B) and lower scores on subscales cohesion ($p<0.001$, compared to Group C), communication ($p<0.001$, compared to Group C), and chaotic ($p<0.001$, compared to other groups). Families with adolescents diagnosed with BN (Group B), instead, had higher scores on chaotic ($p<0.001$) than Group A and lower scores on cohesion ($p<0.001$, compared to Group C) and flexibility ($p<0.001$) compared to other groups. Furthermore, families with adolescents diagnosed with BEDs (Group C) had higher scores on cohesion ($p<0.001$), flexibility ($p<0.001$), and communication ($p<0.001$) than Groups A and B.

**Assessment of adolescents’ psychopathological risk**

To verify a possible significant difference in the scores of adolescents’ psychopathological risk in the three study groups, an ANOVA was conducted. Group factor (Group A: subjects with AN, Group B: subjects with BN, and Group C: subjects with BED) was identified as the independent variable and all SCL-90-R subscales were identified as the dependent variables.

Table 1 Differences between the mean scores of the three groups (Group A: AN, Group B: BN, and Group C: BED) and those of balanced families

<table>
<thead>
<tr>
<th>FACES-IV subscales</th>
<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
<th>Balanced families</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cohesion</td>
<td>35.31*</td>
<td>37.52*</td>
<td>53.19*</td>
<td>83</td>
</tr>
<tr>
<td>Flexibility</td>
<td>33.32*</td>
<td>23.6*</td>
<td>42.57*</td>
<td>80</td>
</tr>
<tr>
<td>Disengagement</td>
<td>66.41*</td>
<td>69.84*</td>
<td>73.54*</td>
<td>27</td>
</tr>
<tr>
<td>Enmeshment</td>
<td>79.37*</td>
<td>69.6*</td>
<td>74.19*</td>
<td>38</td>
</tr>
<tr>
<td>Rigidity</td>
<td>69.46*</td>
<td>61.77*</td>
<td>46.58*</td>
<td>35</td>
</tr>
<tr>
<td>Chaotic</td>
<td>70.62*</td>
<td>94.31*</td>
<td>92.76*</td>
<td>33</td>
</tr>
</tbody>
</table>

Note: *Significantly different ($p<0.001$) from balanced families’ mean scores (one-sample t-test).

Abbreviations: AN, anorexia nervosa; BN, bulimia nervosa; BED, binge eating disorder; FACES, Family Adaptability and Cohesion Evaluation Scale.

Figure 1 Family profiles of families with adolescents affected by AN (Group A), BN (Group B), and BED (Group C).

Abbreviations: AN, anorexia nervosa; BN, bulimia nervosa; BED, binge eating disorder; FACES, Family Adaptability and Cohesion Evaluation Scale.
variables. Results showed significant differences between groups on psychopathological profiles (Table 2).

Results showed that adolescents of Groups A, B, and C had specific characteristics in their psychopathological profiles. In particular, adolescents diagnosed with AN had the highest psychopathological risk. Moreover, adolescents of Group A showed mean scores that exceeded the clinical cutoff in all SCL-90-R subscales and had higher scores on subscales ANX (p<0.001, compared to Group C), O-C (p<0.001), DEP (p<0.001), HOS (p<0.001), and GSI (p<0.01) if compared to other groups. On the other hand, adolescents of Group B showed higher scores on SOM (p<0.001), PAR (p<0.001), and PHOB (p<0.001) than other groups and exceeded clinical cutoff in these subscales. Furthermore, adolescents of Group C showed higher scores on I-S (p<0.001) and PSY (p<0.001) compared to Groups A and B and exceeded clinical cutoff in these subscales.

Associations between family functioning and adolescents’ psychopathology

A series of hierarchical regressions were conducted to evaluate the possible associations between family functioning and adolescents’ psychopathology. Results showed that family functioning is associated with adolescents’ psychopathological risk, differently in the three groups. Regression analysis on Group A showed that higher scores on the FACES-IV subscale rigidity predicted higher scores on adolescents’ SOM (R^2=0.224; β=0.303; t=2.24; p<0.05), and higher scores on FACES-IV subscale enmeshment predicted higher scores on adolescents’ ANX (R^2=0.29; β=0.37; t=2.57; p<0.05). Furthermore, regression analysis on Group B showed that higher scores on FACES-IV subscale rigidity predicted higher scores on adolescents’ DEP (R^2=0.202; β=0.45; t=2.64; p<0.05) and that lower scores on communication predicted higher scores on I-S (R^2=0.26; β=0.45; t=3.04; p<0.01) and lower scores on satisfaction predicted higher scores on HOS (R^2=0.26; β=0.32; t=2.21; p<0.05). Finally, the regression analysis on Group C showed that higher scores on FACES-IV subscale rigidity predicted higher scores on I-S (R^2=0.19; β=0.34; t=2.21; p<0.05).

Discussion

The present study aimed to investigate the possible associations between family functioning and psychopathological symptoms in adolescents with EDs. We aimed to verify the existence of specific profiles of family functioning and specific psychopathological symptoms in adolescents diagnosed with AN, BN, and BED. Our results showed that families of female adolescents with EDs are characterized by specific problematic profiles of family functioning. As shown in Figure 1, all family profiles diverge from the profile identified by Olson57 for balanced families, which showed higher levels of cohesion and flexibility and lower scores on the subdimensions of disengagement, enmeshment, rigidity, and chaotic. Moreover, there are significant differences between family profiles in the three diagnostic groups. In particular, families with adolescents diagnosed with AN tend to report interpersonal boundary problems, poor tolerance of conflicts, and low levels of general satisfaction in their family. Specifically, they showed significantly higher scores of enmeshment and rigidity and lower scores of cohesion, chaotic, and communication quality. These results are consistent with previous studies that indicated the presence of excessive dependence on other family members, low flexibility, poor communication, and overprotectiveness in these families.18,58 These features seem to be coherent with conflict avoidance, which generally characterizes familial relationship of families with daughters diagnosed with AN.59

Parents of adolescents diagnosed with BN described their families as more chaotic than parents in families with adolescents diagnosed with AN, with lower levels of flexibility and cohesion than all other groups. In addition, Vidović et al60 suggested that families of adolescents with bulimic diagnosis have a significantly more dysfunctional family background compared to patients diagnosed with AN. The families of bulimic adolescents represented their families as less cohesive, poorly coherent, and badly organized and reported the presence of high levels of family conflict and
Finally, families of adolescents diagnosed with BED showed higher scores of cohesion and flexibility, and similar to families with daughters suffering from AN, they described their family as enmeshed and characterized by poor communication. These findings are coherent with the study of Tetzaflaff et al\textsuperscript{17} that has suggested that families of female adolescents with BED showed significantly low emotional and affective involvement; other studies also underlined that they tend to report nonaffectionate communication and low adaptability.\textsuperscript{62}

With regard to adolescents’ psychopathological risk, our study found that Groups A, B, and C presented specific psychopathological profiles. In particular, adolescents with AN reported the highest levels of psychopathological risk, exceeding the clinical cutoffs for the Italian population in all SCL-90-R subscales, and they reported greater obsessive–compulsive symptomatology, DEP, HOS, and ANX. Adolescents with BN (Group B) showed more difficulties on SOM and PHOB. On the other hand, adolescents suffering from BED had higher scores of I-S and PSY. Our results are in line with international scientific literature that underlines that adolescents suffering from an ED can present a wide range of subclinical forms of psychological problems, specifically in the internalizing area.\textsuperscript{21,22,63} Results also showed that families with adolescents diagnosed with AN, BN, and BED had different profiles of family functioning and that their daughters showed psychopathological risk in different problematic areas. Thus, we aimed to verify the possible association of family functioning with adolescents’ psychopathological risk. Regression analysis confirmed this association. In particular, as previously found by Allen et al,\textsuperscript{64} in adolescents with AN, higher rigidity in familial relationship predicts higher levels of SOM, whereas higher enmeshment is predictive of higher ANX. In adolescents with BN, higher levels of rigidity are associated with higher scores of DEP, poorer quality of communication predicts higher scores of I-S, and lower levels of satisfaction are associated with higher scores of I-S. Finally, higher scores of rigidity in families with adolescents with BED are predictive of higher levels of I-S. These results are consistent with the findings of one previous study that have suggested that dysfunctional family functioning is associated with a higher psychopathological risk in adolescents with EDs.\textsuperscript{65} Interestingly, our results also showed that rigidity, which characterizes family functioning in families with daughters with EDs, predicts higher psychopathological symptoms, but with different configurations in the three diagnostic groups. Everri et al\textsuperscript{66} underlined that when rigidity is associated with disengagement, low cohesion and flexibility could be considered as maladaptive. Furthermore, Lampis et al\textsuperscript{67} have shown that high levels of cohesion and family adaptability were protection factors for EDs.

The present study has several strengths. First, the study took into consideration three groups of adolescents diagnosed with different EDs, assessing adolescents’ psychopathological risk and family functioning. Second, the measures used are well validated and are widely used.\textsuperscript{52,54} Third, our research assesses parents’ and adolescents’ perceived quality of family functioning, considering mean scores aggregating the scores of family members, which may constitute a strong stimulus for further clinical studies. Studies addressing specific forms of EDs and their associations with psychopathological profiles and family functioning are scarce. The present study may add to previous literature and supports clinical work in the treatment of adolescents diagnosed with EDs, as suggested by Jewell et al.\textsuperscript{68} In fact, clinicians could organize different interventions depending on the particular ED the adolescent is manifesting and the specific familial functioning (represented for instance by their members’ capacity to adaptively communicate, support each other, and be flexible).

Our study has some limitations. We did not recruit a control sample, and it has not been possible to compare subjects’ scores to a nonclinical group. On the other hand, we used the normative scores for the Italian population for both measures. Furthermore, we did not assess parental psychopathological risk, which could give important information on the development of adolescents’ EDs.\textsuperscript{46,69–71} In addition, the homogeneity of the sample, in terms of cultural, geographical, and socioeconomic status, limits replication of the study in other countries or cultures. Finally, the present study did not take into consideration social support, which several studies underline to be important in the adolescent phase,\textsuperscript{72,73} and longitudinal studies are needed that can clarify the many dynamics.\textsuperscript{74,75}

**Disclosure**

The authors report no conflicts of interest in this work.

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