

ORIGINAL RESEARCH

How Does Social Support and Emotional Intelligence Enhance Life Satisfaction Among Adolescents? A Mediational Analysis Study

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Introduction: The decline in life satisfaction throughout adolescence has led research to focus on variables that facilitate life satisfaction, such as social support and trait emotional intelligence. However, the relationship dynamics between the main sources of social support (family, friends and teachers), trait emotional intelligence (emotional attention, clarity and repair), and life satisfaction have yet to be elucidated.

Objective: Therefore, the aim of this study is to test and compare a set of structural models that integrate these three variables.

Methods: A sample of 1397 middle school students (48% males, 52% females) with age range 12–16 years (M = 13.88, SD = 1.27) was selected.

Results: The data showed that trait emotional intelligence significantly mediated the effect of the social support network on life satisfaction, highlighting the greater contribution of family support, emotional clarity, and emotional repair as enabling factors of adolescent well-being.

Discussion: Psychoeducational and social implications of these results are discussed.

Keywords: social support, trait emotional intelligence, life satisfaction, mediation analysis, structural equation models

Introduction

With the emergence of positive psychology,¹ the focus of research has shifted to analyzing the strengths and individual abilities that lead to optimal functioning and enable the positive aspects of life and human existence to be fully articulated.² In this context, life satisfaction has attracted a large amount of interest, since it is representative of subjective wellbeing,³ understood as the global cognitive judgment that individuals make about their own lives.⁴ However, studies have reported a drop in life satisfaction among adolescents,^{5,6} a finding that has prompted researchers to begin to explore the variables that facilitate it, including social support^{7,8} and trait emotional intelligence.^{9,10}

Social support, understood as one's subjective perception of the amount of emotional, practical and informational support received through interactions with other people, ¹¹ is one of the main sources of subjective wellbeing ^{4,8} and a variable capable of mitigating the effects of difficult or stressful situations. ¹² The support provided by close sources, such as family, friends and teachers, is therefore vital for adolescents to feel happy and satisfied with their lives. ¹³ However, the exact contribution made by each social support network has yet to be determined. ¹⁴ Some studies identify family as the most important wellbeing provider. ¹⁵ Others highlight the key role played by people from the school environment, namely teachers and, above all, friends, ^{16,17} due to the importance of the peer group during this developmental stage. ¹⁸ Moreover, some authors argue that there is an association between all three types of support (family, friends and teachers), with the quality of family support facilitating or hindering the establishment of relationships in other contexts, fostering or interfering with individuals' perceptions of the help provided by friends and teachers. ¹⁸

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Trait emotional intelligence (EI), defined as the subjectiveness of the emotional experience and beliefs linked to emotional attention, clarity and repair, ¹⁹ is considered a valuable predictor of health²⁰ and subjective wellbeing. ¹⁰ People with low levels of emotional attention and high levels of emotional clarity and repair also report higher levels of life satisfaction. ²¹ Moreover, previous research has shown that these associations are maintained when the progressive model of trait EI is taken into account, ^{21–23} with emotional attention influencing emotional clarity and emotional clarity influencing emotional repair. ^{21,24}

Although empirical evidence exists of the association among these variables, the specific dynamics of the relationships have yet to be fully determined.^{25,26} This is even more evident in studies that analyze social support, trait EI and life satisfaction together. Previous studies have reported associations among all three variables,²⁷ and there is strong scientific support for considering life satisfaction as an outcome variable indicative of personal adjustment.^{9,28} The results regarding the role played by social support and trait EI in fostering life satisfaction are therefore confusing and heterogeneous.²⁹ This situation is further exacerbated by the fact that few studies have included different sources of support (family, friends and teachers) and all three dimensions of trait EI (emotional attention, clarity and repair) in their explanations of life satisfaction.²⁶

Some authors argue that trait EI may help individuals perceive better support and social skills, ^{30,31} which would in turn generate more fruitful social networks, thereby contributing positively to life satisfaction. ^{29,32} From this standpoint, trait EI is seen as a type of personal disposition that is positively linked to social support, ²⁹ a variable that mediates the association between trait EI and life satisfaction. ^{29,33} Emotional clarity and repair promote positive relationships with others and a better perception of the support available in the immediate environment, ³³ which in turn results in high levels of life satisfaction. ³⁴ The type of mediation at play here has yet to be clarified, mainly due to the scarcity of studies in this field and the tendency to include only the global components of these variables. ^{29,35} The few studies that have focused on this question seem to indicate that social support may partially mediate the influence of trait EI on life satisfaction. ^{26,29}

Another set of studies view perceived social support as vital to the development of adolescents' identity³⁶ and emotional skills,^{37,38} which in turn contribute to generating a more satisfied perception of their lives.^{21,39} The ecological model⁴⁰ views the three microsystems made up by family, friends and teachers as fundamental to human development, with support from these sources being vital to the acquisition and development of emotional skills,^{39,41} since the feeling of being helped and cared for⁴² becomes a means to increase personal resources and skills, as well as to enhance the emotions necessary to ensure adequate personal adjustment.^{43,44} Lin's⁴² conceptualization of social support indicates the same idea and mentions that the relationships established in each close social context (family, friends and teachers) contribute in a differentiated way to the development of psychosocial skills and individual's adjustment. These types of studies therefore consider trait EI as a variable that mediates the influence of social support on life satisfaction,⁴⁵ even if only partially.²⁸ However, very little empirical evidence exists in this respect, and further exploration of these relationship dynamics is required.

In light of the above, and considering the national and international evidence, the aim of the present study is to analyze a set of nested and non-nested theoretical models in order to determine the relationship dynamics between social support (family, friends and teachers), trait EI (emotional attention, clarity and repair) and life satisfaction (Figure 1). The objective is therefore to analyze the dynamics of the associations that exist among the three variables studied and to determine the most important source of support, in order to make a relevant contribution to the field of positive psychology, which aims to identify those factors that facilitate wellbeing during a stage characterized by a sudden drop in the levels of this variable. 5,6 Based on previous research, we hypothesize that the M_{2b} model is the most plausible model and will best fit the data.

Method

Participants

Participants were 1397 adolescents from both public (831 students) and semi-private (566 students) schools in the [details removed for blind review]. All students were in compulsory secondary education and were aged between 12 and

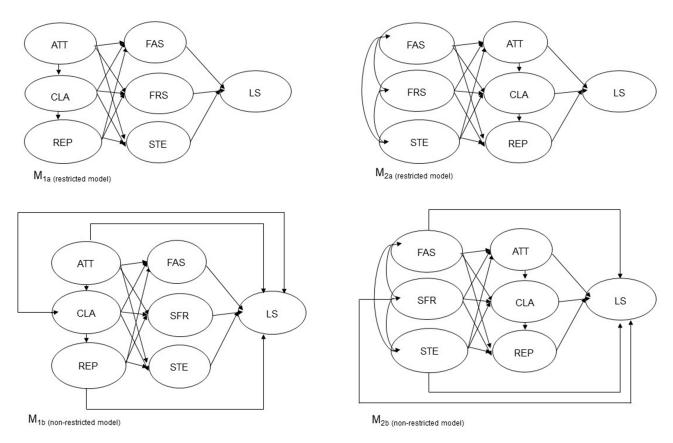


Figure 1 Conceptual diagrams of the proposed theoretical models.

Note: M_{1a}= restricted model, M_{2a} = restricted model, M_{1b} = non-restricted model, M_{2b} = non-restricted model.

Abbreviations: ATT, emotional attention; CLA, emotional clarity; REP, emotional repair; LS, life satisfaction; FAS, family support; SFR, support from friends; STE, support from teachers.

16 years (M = 13.88; SD = 1.27). In terms of gender distribution, 670 (48%) were boys and 727 (52%) were girls. In terms of age, 831 (59.5%) were in the first two years (key stage one) of secondary education and 566 (40.5%) were in the second two years (key stage two). The socioeconomic and cultural level of the sample was medium. The balance between public and semi-private schools and gender and age of the participants were accurately pursued. Schools and classes were chosen in accordance with availability, with the sample being recruited through incidental sampling.

Instruments

Support from family and friends was measured using the Apoyo Social Percibido de Familia y Amigos- AFA (Support from Family and Friends) Questionnaire. The scale comprises 15 items rated on a Likert-type scale with 5 response options (1 = never to 5 = always). These items are grouped into two subscales: (1) support from family (8 items), which assesses the perceived availability of family members to chat and provide help, affection and support, as well as satisfaction with the support received (eg, someone in your family supports you when you are at school); and (2) support from friends (7 items), which measures the perceived availability of friends to chat and provide help, affection and support, as well as satisfaction with the support received (eg, you feel satisfied with the support received from friends). The goodness of fit indexes for the questionnaire in this sample were adequate (CFI = 0.906, IFI = 0.906, $\chi^2_{[df]}$ = 499.04_[61], RMSEA_[CI 90%] = 0.072_[0.066-0.077], SRMR = 0.054) and each subscale had adequate reliability indexes (support from family: α = 0.851, H coefficient = 0.852; and support from friends: α = 0.858, H coefficient = 0.875).

Support from teachers was assessed by the subscale included in the Perception of the School Environment questionnaire.⁴⁷ This instrument, adapted to Spanish,⁴⁸ measures students' perceptions of the overall support they receive from their teachers (eg, Our teachers are pleasant and friendly). 8 items are rated on a 5-point Likert-type scale ranging

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from 1 = totally agree to 5 = totally disagree. The reliability and goodness of fit indexes were adequate (CFI = 0.950, IFI = 0.951, $\chi^2_{[df]}$ = 139_[20], RMSEA_[CI 90%] =0.072_[0.062-0.082], SRMR = 0.035, α = 0.846, H coefficient = 0.859).

To assess trait EI, we used the Trait Meta-Mood Scale-12 (TMMS-12),⁴⁹ which is the reduced Spanish version of the TMMS.⁵⁰ The scale comprises 12 items and measures trait EI using three subscales: (1) emotional attention, concerning individuals' beliefs about the attention they pay to their emotions (eg, I am usually very conscious of what I feel); (2) emotional clarity, referring to the clarity with which an individual perceives their emotional experience (eg, I can usually define my feelings); and (3) emotional repair, understood as the way in which people manage their emotions (eg, Although I am sometimes sad, I mostly have an optimistic outlook). Items are rated on a 5-point Likert-type scale ranging from 1 (totally disagree) to 5 (totally agree). For this sample, the goodness of fit values were acceptable (CFI = 0.935, IFI = 0.935, $\chi^2_{[df]} = 337.46_{[50]}$, RMSEA_[CI 90%] = $0.064_{[0.058-0.071]}$, SRMR = 0.067), as were the reliability indexes (emotional attention: $\alpha = 0.812$, H coefficient = 0.806; emotional clarity: $\alpha = 0.777$, H coefficient = 0.795; emotional repair: $\alpha = 0.696$, H coefficient = 0.800).

Life satisfaction was measured by using the Satisfaction with Life Scale (SWLS),⁵¹ validated in Spanish.⁵² This single-dimensional measure assesses respondents' cognitive and overall appraisals of their life cycle through 5 items (eg. In most ways my life is close to my ideal). Items are rated on a 7-point Likert-type scale ranging from 1 = strongly disagree to 7 strongly agree). For the sample used in the present study, the reliability and goodness of fit indexes were adequate (CFI = 0.983, IFI = 0.983, $\chi^2_{[df]} = 29.56_{[5]}$, RMSEA_[CI 90%] = 0.059_[0.040-0.081], SRMR = 0.023, $\alpha = 0.826$, H coefficient = 0.858).

Procedure

First, we contacted the schools and informed them of the aims of the study. After obtaining institutional authorization and the informed consent of participants' legal guardians, the data were collected in a session lasting approximately 40 minutes. The questionnaires were administered in participants' classrooms by members of the research team. To reduce the likelihood of social desirability bias and insincere responses, participants were informed of the importance of being honest, were assured that their answers would remain confidential, and that their participation was strictly voluntary. The single blind criterion was used to mitigate participants' expectations and reactivity when completing the battery of questionnaires. The study was conducted according to the guidelines of the Declaration of Helsinki, and approved by the Ethics Committee of the [details removed for blind review].

Data Analysis

To calculate missing values, we used the expectation maximization (EM) algorithm and the Markov Chain Monte Carlo (MCMC), in the LISREL 8.8 program. Atypical values were eliminated using the SAS software package.

The descriptive statistics and correlation coefficients were calculated using the SPSS v.22 statistical package. To determine the fit of the measurement models and the structural models tested, we used the EQS v.6.3 statistical program.

To analyze whether the measurement effects hypothesized in the models were significant, we used the steps described by Holmbeck, 53,54 testing three alternative models: (1) a non-intervened direct model (M₀₁ and M₀₂); (2) a restricted model (M_{1a} and M_{1b}); and (3) a non-restricted model (M_{2a} and M_{2b}). We also analyzed the residual covariance matrix and the goodness of fit indexes of the different models: 55 $\chi^2/df \le 5.0$; CFI, TLI and IFI ≥ 0.90 ; RMSEA ≤ 0.08 and its confidence interval (CI 90%); and SRMR ≤ 0.08. To compare non-nested models, we used the AIC and CAIC information criteria, with the model with the lowest values being considered the most parsimonious.⁵⁶ To compare nested models, we used the Chi-squared test, the significance of which is considered indicative of differences in model fit.57

Results

Descriptive Analyses and Correlations

As shown in Table 1, scores for trait EI correlated positively with social support from family, friends and teachers, with the association between family support and emotional repair being the strongest (r = 0.236, p < 0.001). Moreover, social

Table I Descriptive Statistics and Correlations

	2	3	4	5	6	7	м	SD
I. Family support	0.330***	0.290***	0.067*	0.222***	0.236***	0.393***	32.77	5.28
2. Support from friends		0.116**	0.172***	0.163***	0.143***	0.217***	28.30	4.48
3. Support from teachers			0.066*	0.190***	0.226***	0.260**	26.30	5.87
4. Emotional attention				0.275***	0.187***	-0.003	24.45	7.11
5. Emotional clarity					0.438***	0.328***	25.10	6.66
6. Emotional repair						0.383***	27.60	6.72
7. Life satisfaction							26.20	5.63

Note: *p < 0.05, **p < 0.01, ***p < 0.001.

support was also positively associated with life satisfaction, with family support again being the contextual variable with the strongest correlations (r = 0.393, p < 0.001) in all the relationships studied. Positive and significant associations were also found between trait EI and life satisfaction, except in the case of emotional attention (r = -0.003, p > 0.05).

Structural Equation Models

The suitability of the measurement model ($\chi^2_{[df]}$ = 2018.06_[605], χ^2/df = 3.23, TLI = 0.903, CFI = 0.912, IFI = 0.912, SRMR = 0.047, RMSEA_[CI 90%] = 0.041_[0.039-0.043]), and the good fit and significance levels of all the pathways established in the non-intervened direct effect models, M₀₁ (effect of social support on life satisfaction) and M₀₂ (effect of trait EI on life satisfaction), enabled the proposed theoretical models to be tested using the structural equations method. The models hypothesized (Figure 1) were therefore empirically tested and the results are presented in Table 2.

The results revealed that hypothesized M_{02} , namely that which proposed trait EI as the variable mediating the association between social support and life satisfaction, was the one that best fit the data. Although both the restricted structural model (M_{2a}) and the non-restricted model (M_{2b}) returned satisfactory fit indexes, the AIC and CAIC information criteria, as well as the Chi-squared test, indicated that model M_{2b} had a significantly better fit than M_{2a} ($\Delta\chi^2 = 153.41$, p < 0.000). The Walt test revealed the need to eliminate the pathways established between the latent factors support from friends-emotional clarity, support from friends-emotional repair, and family support-emotional attention, due to lack of significance, as indeed suggested by theoretical evidence. This result partially coincides with the hypothesis, since M_{2b} is confirmed as the most plausible model, although some paths are no longer significant. Figure 2 shows the standardized regression coefficients of the final structural model (M_{2b}) , after these associations were eliminated. The percentage of variance explained for life satisfaction, resulting from the effects of social support and trait EI, was 37.8%.

Direct, Indirect, and Total Effects

The results presented in Table 3 show the influence of trait EI and social support on life satisfaction. Specifically, emotional attention ($\beta_d = -124$, p < 0.01) was found to negatively influence life satisfaction, whereas emotional clarity ($\beta_d = 0.158$, p < 0.01) and emotional repair ($\beta_d = 0.256$, p < 0.01) influenced it positively.

Table 2 Comparison of Theoretical Models

	χ ² [df]	χ^2/df	TLI	CFI	IFI	SRMR	RMSEA [CI 90%]	AIC	CAIC
Moi	1232.6325 _[291]	4.24	0.904	0.914	0.914	0.044	0.048[0.045-0.051]	650.63	-1166.23
M ₀₂	486.0967[112]	4.34	0.931	0.944	0.944	0.057	0.049 _[0.044-0.053]	262.10	-437.18
M _{Ia}	2259.2417[612]	3.69	0.888	0.897	0.897		0.044 [0.046-0.050]	1035.24	-2785.79
M _{Ib}	2158.1542[609]	3.54	0.894	0.903	0.903		0.043 _[0.041-0.045]	0.940.15	-2862.15
M _{2a}	2037.2505[608]	3.35	0.905	0.911	0.911		0.041 [0.039-0.043]	821.25	-2974.81
M _{2b}	1878.1526 _[607]	3.09	0.913	0.920	0.921		0.039 [0.037-0.041]	664.15	-3125.66

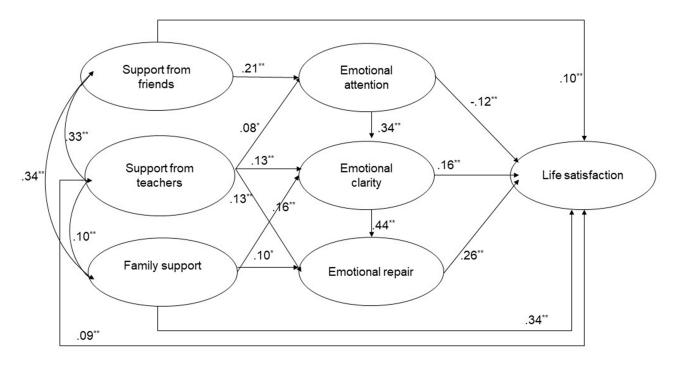


Figure 2 Conceptual diagram and standardized coefficients of the final M_{2b} model. **Note**: *p < 0.05, **p < 0.01.

Although emotional repair was the trait EI variable that had the strongest direct effect on life satisfaction, emotional clarity was found to have a stronger total influence on that same variable ($\beta_t = 0.272$, p < 0.01), since it was mediated by emotional repair. Although small, the indirect effect of emotional attention on life satisfaction is also worth nothing. This effect was positive ($\beta_i = 0.091$, p < -0.01) and was exercised through emotional clarity.

Family support was the contextual variable that most contributed to life satisfaction ($\beta_d = 0.343$, p < 0.01), with the influence in this case being total ($\beta_t = 0.412$, p < 0.01). In contrast, the contribution of support from friends ($\beta_d = 0.098$, p < 0.01) and support from teachers ($\beta_d = 0.088$, p < 0.01) was smaller, although support from teachers had a larger total effect on life satisfaction ($\beta_t = 0.150$, p < 0.01).

Support from teachers contributed directly and positively to all the variables that make up trait EI, whereas support from friends only had a direct effect on emotional attention ($\beta_d = 0.216$, p < 0.01) and a slight indirect effect on emotional clarity ($\beta_i = 0.072$, p < 0.01). Although family support was the contextual variable that contributed most to explaining emotional clarity among adolescents ($\beta_d = 0.163$, p < 0.01), only support from teachers was found to do so in relation to emotional repair ($\beta_d = 0.132$, p < 0.01). The influence of emotional attention on emotional clarity ($\beta_d = 0.335$, p < 0.01), and the influence of emotional clarity on emotional repair ($\beta_d = 0.443$, p < 0.01) were stronger than the effect of the contextual variables studied.

Discussion

Adolescence is characterized by a sharp drop in life satisfaction,⁵ due to, among other reasons, the pubertal changes experienced during this developmental stage. 18,58 It is therefore important to determine which factors promote life satisfaction, in order to foster positive adolescent adjustment. Previous research has highlighted the significant role played by social support (from family, friends and teachers) and trait EI (emotional attention, clarity and repair) in fostering life satisfaction, 4,8 although the specific dynamics of the relationships which exist between them still need to be determined.^{25,26} Another aspect that requires clarification is the question of which source of social support is most important in this regard, 14 since this will enable the design of more precise and empirically tested strategies for fostering wellbeing.⁵⁹ Within the framework of positive psychology, the aim of the present study was therefore to analyze a set of nested and non-nested theoretical models in order to clarify the association between the variables and to determine the differential contribution made by the principal sources of support within these relationship dynamics.

Table 3 Direct, Indirect and Total Effects of the Final M_{2b} Model

Explained Variable	Standardized Coefficients						
Emotional attention ($R^2 = 0.057$)	β_d	Z _d	β_i	Z _i	β_{t}	Z _t	
Support from friends → Emotional attention	0.216**	6.090	-	-	0.216**	6.090	
Support from teachers → Emotional attention	0.082*	2.382	-	-	0.082*	2.382	
Emotional clarity (R ² = 0.183)	β_d	Z _d	eta_i	Z _i	$oldsymbol{eta_t}$	Z _t	
Family support → Emotional clarity	0.163**	4.267	_	_	0.163**	4.267	
Support from friends → Emotional clarity	_	-	0.072**	4.942	0.072**	4.942	
Support from teachers → Emotional clarity	0.115**	3.196	0.027*	2.266	0.143**	3.674	
Emotional attention → Emotional clarity	0.335**	8.922	-	-	0.335**	8.922	
Emotional repair (R ² = 0.275)	β_d	Z_d	β_i	Z _i	β_t	Z_t	
Family support → Emotional repair	0.095*	2.412	0.072**	3.854	0.167**	3.837	
Support from friends → Emotional clarity	_	-	0.032**	4.509	0.032**	4.509	
Support from teachers → Emotional repair	0.132**	3.760	0.063**	3.510	0.195**	5.126	
Emotional clarity → Emotional repair	0.443**	10.650	-	_	0.148**	10.650	
Emotional attention → Emotional repair	_	-	0.148**	6.897	0.443**	6.897	
Life satisfaction ($R^2 = 0.378$)	β_d	Z _d	β_i	Z _i	$oldsymbol{eta_t}$	Z _t	
Emotional attention → Life satisfaction	-0.124**	-3.518	0.091**	5.544	-0.033	-1.011	
Emotional clarity → Life satisfaction	0.158**	3.907	0.113**	5.477	0.272**	7.344	
Emotional repair → Life satisfaction	0.256**	6.133	-	_	0.256**	6.133	
Family support → Life satisfaction	0.343**	7.878	0.068**	4.117	0.412**	8.382	
Support from friends → Life satisfaction	0.098**	2.768	-0.007	-1.000	0.091*	2.393	
Support from teachers → Life satisfaction	0.088**	2.685	0.062**	4.331	0.150**	4.179	

Note: *p < 0.05, z = 1.96; **p <0.01, z = 2.56.

Of the four hypothesized theoretical models, the results of the present study indicate that the one in which emotional attention, clarity and repair were considered to partially mediate the influence of social support on life satisfaction best fit the data. This model was hypothesized to be the most plausible, although the hypothesis has been partially confirmed because some routes have turned out not to be significant. According to some authors, individual and social assets may share common characteristics and it is likely that it is the individual ones that develop within a social context, with social networks constituting a source of social capital that serves as a bridge for processes that support competence, personal growth and wellbeing. This is consistent with the ecological model of human development, as well as with the body of studies that highlight the importance of feeling cared for, looked after and loved by one's close support network in the development of emotional strategies that contribute to wellbeing. Indeed, these emotional skills seem to develop through observational learning, modeling and social reference; In leads to an increase in perceived emotional intelligence that, in turn, impacts life satisfaction.

Consistently with that reported in the extant literature,²¹ the present study found that emotional attention has a negative impact on life satisfaction, whereas emotional clarity and repair have a positive influence. This is perhaps due to the fact that paying too much attention to emotions may generate ruminative thoughts that hamper adaptive processes.⁶² Although emotional repair was found to have the strongest direct influence on life satisfaction, the total effect of emotional clarity was slightly stronger,²³ due to the mediating role of emotional repair in the association between this variable and life satisfaction. This highlights the importance of emotional repair, accompanied by good emotional understanding, in fostering wellbeing, thereby corroborating the progressive model of trait EI.^{21,22,24}

The results of our study also revealed that different sources of support impact the various components of trait EI in a differential manner, since the effect of the support provided varied in accordance with its source, type and the extent to which it was adjusted to individual needs.³⁸ Specifically, support from friends was found to have a relevant effect on emotional attention, whereas family support and support from teachers had a significant impact on emotional clarity and

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repair,^{28,39} with the effect of family support on emotional clarity being particularly strong.⁴³ Adolescence is characterized by a gradual separation from parental control and guidance, as well as by the development of a high level of receptivity to peers and the immediate environment,¹⁸ which explains why support from friends was the variable that most contributed to fostering emotional attention, since, during this period, friends become an important reference that facilitate emotional disposition.

In contrast, the search for support in adults may be considered an instrumental strategy through which adolescents seek advice and guidance for clarifying and regulating their emotions effectively.^{28,43} It therefore seems that seeking out adults with extensive life experience influences adolescents' ability to interpret their own emotions, as well as their perceived capacity to regulate those feelings.^{28,43} Indeed, previous research has highlighted lack of social support from significant adults (such as parents and teachers) as one of the main reasons behind inadequate emotional clarity and repair, since social support is an effective means of helping adolescents learn to understand and handle their emotions.^{37,43}

One novel finding worth highlighting is the direct^{4,8,13} and indirect influence of social support on life satisfaction, mediated by trait EI, as indeed suggested by that reported in previous studies.^{28,45} Specifically, the present study found that the total effect of support from teachers was almost twice as strong as that of support from friends, a finding that reveals the importance of the mediating role played by trait EI in the relationship between support from teachers and life satisfaction.²⁸ The results therefore indicate that teachers are a more important source of support for wellbeing when adolescents perceive that they help them manage their emotional skills intelligently.⁶³

The results of our study point to family support as the contextual variable that contributes most to life satisfaction, followed by support from teachers and, finally, support from friends. This finding is consistent with those who found the same association in the majority of the 42 countries they analyzed. Although friends become more important during adolescence, previous research has also found that the peer group can generate social pressure and give rise to maladaptive behavior, which would explain the low level of influence found in the present study. It seems that adolescents continue to depend on the adults around them, sepecially those in their immediate family, for emotional and instrumental support, since their trust and proximity foster empathic communication dynamics that provide emotional and psychosocial resources and help promote mental health.

To these complex relationship dynamics, we must also add the associations found between the different types of support, with perceived support in one context contributing to or hindering the perception of support in another. Some authors ¹⁹ found that support from friends may have a positive influence on adolescent wellbeing when it is accompanied by family support; whereas among adolescents who reported lower levels of family support, strong support from friends was associated with an increase in mental health symptoms and risk behaviors. Consequently, sources of support are associated with one another and may explain the heterogeneity of the results reported to date regarding the importance of family and friends during adolescence.

The present study has a number of limitations that should be taken into consideration. First, the data were gathered exclusively through self-report measures. Future studies may wish to include objective measures of emotional intelligence or social support. Second, including the type of support (instrumental, emotional or informative) provided by participants' close networks would have offered valuable, specific information that may have shed further light on the associations studied. It would also be interesting to analyze this relationship dynamic by including relevant variables such as parental styles, the role of siblings, etc., and to analyze whether the proposed model is maintained as a function of the socioeconomic status of the family and the characteristics of the school and classroom. Third, when generalizing the results of this study, it should be taken into account that it is not representative of all socioeconomic realities, since it has focused on the middle class population. However, the study can be generalized to the majority of the adolescent student population since the majority of the real population is situated in the medium socioeconomic level, although it is true that this is a characteristic that could not be controlled. Likewise, the sample was chosen incidentally, being more appropriate the use of a random sampling, as a non-probability sampling is a less stringent method and depends largely on the experience of the researchers. Finally, since the study was cross-sectional in nature, we cannot establish causal relationships between the variables studied beyond the statistical plausibility offered by the use of structural equations in this type of study. Further experimental research is therefore required to analyze and confirm the results reported here.

Indeed, it is imperative to conduct additional longitudinal studies to thoroughly analyze and validate the reported results, as manipulating any of the variables involved would raise ethical concerns. Moreover, although the structural equations analysis revealed trait EI as the variable that mediates the influence of social support on life satisfaction, a recursive relationship may exist between social support and this personal variable. Future research should therefore explore these associations through longitudinal studies.

Conclusion

In general, the results of the present study highlight the importance of contextual and personal factors in promoting adolescent life satisfaction, with family support being of particular importance, along with perceived emotional clarity and repair. It is therefore important to focus on creating positive family environments that enable the perception of higher levels of support by those in the school environment. Support from teachers also contributes significantly, albeit to a lesser extent than the variables mentioned above, to life satisfaction when adolescents feel that their teachers help them regulate their emotions. This highlights the importance of engaging in classroom activities designed to foster emotional competence.

Data Sharing Statement

Data not available due to privacy or ethical restrictions. The data that support the findings of this study are available on request from the corresponding author.

Ethics Approval

The study was conducted according to the guidelines of the Declaration of Helsinki, and approved by the Committee on Ethics for Research Involving Human Subjects (CEISH) of the University of the Basque Country (M10/2015/076). Informed consent was obtained from the participants and their legal guardians.

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Disclosure

The authors report no conflicts of interest in this work.

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