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# Teachers' Training: Impact on Mental Health, Knowledge and Skills

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## Abstract

Teachers have a fundamental role in transforming the school's environment into a context of well-being and in promoting young people's mental health. The main goal of ES'COOL training is to promote adolescents' mental health by empowering teachers and school staff with skills that will enable them to build a balanced school environment. The aim of this study was to analyse the impact that teacher training in the area of mental health had on their skills and knowledge regarding mental health. The sample was constituted by 276 teachers who work in schools in Portuguese mainland and participated in the ES'COOL training. Two evaluation moments were carried out, the initial evaluation - one week before the beginning of the training, and the final evaluation - one week after the end of the training. Results show that teachers improved most of the assessed skills and knowledge after training. Problem-solving, motivation and leadership were the skills that increased the most after the training.

Keywords: mental health promotion; teacher training; adolescents' mental health

Running head: Teachers' training impact

# Introduction

One of the important goals of education is that students can express themselves, cope with their emotions and resolve their problems correctly. One of the important goals of education is that students can express themselves, cope with their emotions and resolve their problems correctly. The psychological and emotional well-being of students has become an increasing priority in schools, and recent studies in the area of mental health and adolescents have highlighted the need for a greater emphasis on the area because of the growing incidences of depression, suicide, and anxiety rates among students and the decrease in the average age of onset [1]. According to the World Health Organization, mental health is a "state of well-being in which the individual realizes his or her own abilities, can cope with the normal stress of life, can work productively and fruitfully, and is able to make a contribution to his or her own community" [2].

At this point, it seems that the leadership of teachers is essential. Teachers who have a high level of emotional intelligence and problemsolving skills will make a significant impact on their students' skills. Teachers with these skills can provide a positive psychological environment [3]

Teachers are vital professionals in responding to young people with possible mental health difficulties and who show social, emotional or behavioural problems in the classroom. Health and education policies increasingly position teachers as vital agents in connecting mental health services with affected young people [4]. In their study, found the overriding need for explicit and structured guidance for pre-service educators on how to respond to children or young people who present with possible mental health problems. Conceptually speaking, data disclose the need for clear, but not simplistic, guidance on how common mental health problems are manifested in children and young people. It seems to be of major importance that teachers are encouraged to be alert for warning signs warranting careful consideration or timely action, but strongly discouraged, even informally, to diagnose young people.

[5] Conducted a study with 1029 Australian and Maltese teachers about their skills in what mental health promotion is concerned. They reported that participating teachers generally have positive attitudes towards mental health promotion. However, the responses from teachers illustrated some potential difficulties when translating positive attitudes into actual practices.

[6] Conducted a study to verify which factors at the individual and organizational levels relate to differences upon teachers' reported negative emotions, perceived responsibility, and competence in student mental health promotion. The author reported that teacher stress emerges chiefly from a mismatch between feeling responsible for and being able to help students with mental health problems. The data also point to the impact of time constraints in the school context. Finally, the findings reveal significantly higher levels of perceived responsibility and negative emotions amongst female teachers, and significantly lower levels of perceived responsibility amongst teachers at higher grades.

Mental health is one of the many factors alleged to affect academic achievement positively or negatively. The minds, intellectual competences, and social skills of young people are still in the constructive stages of growing up. Thus, to handle young minds successfully and to be able to cope with the expectations of important educational stakeholders, such as parents and the community, a teacher may need to have good mental health and understand the dangerous effects and implications of poor mental health for teaching and learning [7].

Severiens, [8] analysed the curriculum of a teacher training college and found some basic competences that teachers are expected to acquire during their training: interpersonal competence, pedagogical competence, scientific competence, and competence in cooperation with parents and other professionals.

[9] Consider that sensitizing teachers about the mental health needs of school-going children will help them to develop insight into the importance of the promotion of positive mental health as well as the early identification and subsequent management of psychological problems. Conversely, teachers who are unaware of this can have a narrow and stigmatized perception, and over or under pathologies that can delay carrying out any program related to mental health in schools. In addition to teachers, the whole school community has an essential role in young mental health promotion. It is strongly recommended to implement school-based intervention programs in the mental health area, with a long-term follow-up, effective monitoring of the quality of its implementation, in line with an adequate training of the intervention team. An effective multi-source evaluation of the intervention should be included, along with family sessions. [10].

This study aimed at analysing the impact of teacher training, in the area of mental health, on teachers' competences and knowledge about mental health.

# Method

# Participants

The sample was constituted by 276 teachers who worked in schools in mainland Portugal and who participated in the ESCOOL training. Of the 276 teachers, 11.6% are males and 88.4% females, with an average age of 47.9 (SD = 7.2; Min -27; Max- 68) and an average of 21.4 years (SD = 8; Min- 0; Max- 41) of service.

Of the teachers who did the ES'COOL training, 72.8% were graduates, 19.9% had a Master's Degree, 2.5% a Ph.D. and 1.4% a Bachelor Degree (see table 1).

	Ν	%	М	SD	Range.
Sample					
First cycle teacher	36	13			
Teachers (5th to 12th grade)	173	62.7			
Kindergarten teachers	17	6.2			
Special education teachers	35	12.7			
Psychologists and other specialists	15	5.4			
Gender					
Male	32	11.6			
Female	244	88.4			
Age	276	-	47.9	7.2	27-68
Educational Level					
Bachelor Degree	4	1.4			
Graduate	201	72.8			
Master	55	19.9			
PhD	7	2.5			
Other	9	3.3			
Professional Situation					
Permanent	192	69.6			
Temporary	55	19.9			
Other	29	10.5			
Years of Service	275	-	21.4	8	0-41
Years of service in the current school	276	-	8.3	8.7	0-35

Table 1 -	Demographic	Characteristics	of the Partici	pants

Eighty-six projects were developed by teachers, with the supervision of the trainers of the project ES 'COOL. Of the 86 projects, 26 were related to well-being, 17 with mental health, 9 with behaviors and indiscipline, 8 with the prevention of risk behaviors, 8 related to promoting positive relationships, 7 with personal and social skills, 8 projects related to school skills, 2 with the promotion of the relationship between family and school and 1 related to racial discrimination.

About 17.4% of the teachers reported that they had already had mental health training.

### Measures and variables

SCHOOL CONTEXT (Teacher Version)" consists of demographic issues, the "Scale of Mental Health Knowledge and Attitudes in a School Context – ES'COOL" which was adapted from the "Self-Perception Scale of Risk Behaviors" (Cruz, 2016) and from questions adapted from the Health Behavior in School-Aged Children Questionnaire - HBSC / OMS [11]. Scales were also used to evaluate: life satisfaction, professional satisfaction, problems solving, leadership ability, social environment and interpersonal relations in school and skills and knowledge in mental health.

The Questionnaire "ES'COOL - SURVEY MENTAL HEALTH IN

The "Scale of Mental Health Knowledge and Attitudes in a School Context – ES'COOL" is a questionnaire consisting of 29 items, whose answers are given according to a 5-point Likert intensity scale. The subject should indicate the degree of agreement or disagreement, in which 1 = "strongly disagree", 3 = "I do not disagree or agree" and 5 = "Strongly agree". The analysis of the "Scale of Mental Health Knowledge and Attitudes in a School Context – ES'COOL" was carried out taking into account the Behaviour Change Wheel Model (BCW) [12].

Life satisfaction, professional satisfaction, problems solving, leadership ability, social environment and interpersonal relations in school and skills and knowledge in mental health were evaluated on a scale from 0 to 10 in which 0 represents the worst and 10 the best option.

Happiness was assessed using the self-report Subjective Happiness Scale [13]. The happiness scale is a 4-item subjective happiness scale that measures overall happiness. It is derived from a 7-point Likert scale ranging from 1 to 7, in which 1= not a very happy person and 7 = a very happy person. A composite score for global subjective happiness is obtained by averaging the responses to all the four items on the subjective happiness scale. The possible score range is from 1 to 7, higher scores reflecting greater happiness.

The affective dimension was measured via the Positive and Negative Affect Schedule - PANAS [13]. The PANAS is a questionnaire consisting of 20 items, whose answers are given according to a 5-point Likert intensity scale in which, through a series of feelings or emotions, the subject should indicate the degree of agreement or disagreement (1 = "very slightly or not at all", 3 = "Moderately" and 5 = "Extremely"). The items are divided into two sub-scales, representing two mood states or two affective dimensions: Positive Affects (PA) and Negative Affects (NA). While PA reflect feelings of enthusiasm, activity, and alertness, i.e. a state of energy, complete concentration and pleasure in the tasks performed (10 items - Example: "Interested"), NA represents a general dimension of aversive feelings (10 items - Example: "Afflicted"). Low values in Positive Affects mean sadness and lethargy, and low values in Negative Affects mean calm and serenity [14].

## Procedures

The main goal of "ES'COOL" is to promote adolescents' mental health through capacity building of school teachers and school staff. The program aims at the development of personal and social skills and includes the prevention of anxiety and depression symptoms, the promotion of resiliency, and self-regulation in adolescents. The ES'COOL training was implemented with teachers from primary and secondary schools (from 1st to 12<sup>th</sup> grade), kindergarten and special education teachers covering schools from all the regions of Portugal. There have been training groups all over Portugal, namely in the North, Center, Lisbon, and Algarve regions.

The first assessment of the study was conducted one week before the start of the training, while the second one was carried out two weeks after the ES'COOL training. Data collection was performed through an online survey, using the Limesurvey platform.

Thereby, it aimed at verifying the real impact of the training among the participants, namely the level of their knowledge about mental health and their skills to develop the promotion of well-being and healthy lifestyles projects in their schools.

The training program consists of 40 hours, distributed for 20 hours theoretical, formal, in person, and 20 "non-face-to-face" hours, practical sessions. The theoretical part addressed several topics, such as: promoting skills, promoting mental health, self-regulation, resilience, active listening, leadership, and entrepreneurship. In the practical part, the participants developed and implemented projects with the technical supervision and evaluation from the ES 'COOL technicians. The distance learning modules were carried out through the New Communication Technologies, mainly via Skype with sessions between the trainees and trainers. Another method used to conduct the supervision of the work and projects was the use of a forum created on the project site, where all teachers involved in the ES'COOL project can share experiences, doubts, solutions, projects or ideas among themselves and with the supervisors.

# The training was planned as follows:

Module 1 – Mental Health in School; Module 2 – Project Methodology; Module 3 – Project Design; Module 4 – Project Presentation; Module 5 – Techniques and Strategies for Project Development; Module 6 – Project Implementation in School.

Informed consent was obtained from all individual participants included in the study, and ES'COOL followed all the rules for research outlined in the Declaration of Helsinki (WMA, 2008) and was approved by the Ethics Committee of the Medical Center of Lisbon. Confidentiality was ensured and data access restricted to the research team members.

# Data analysis

Data was analysed through the statistics program SPSS 24. Descriptive analysis followed by bivariate analysis were carried out, and finally multiple linear regression models were used.

### Results

For the subscales of mental health knowledge and attitudes, the following values of internal consistency were found: Emotional Capability  $\alpha$ = .80, Problem Solving Capability  $\alpha$ = .69, Motivation  $\alpha$ = .72 and Opportunity  $\alpha$ = .70. For the subscales of the PANAS questionnaire, it was found that: Positive Affects  $\alpha$ = .89 and Negative Affects  $\alpha$ = .84. For the Alienation subscales, it was found that: Demotivation  $\alpha$ = .69, Instability  $\alpha$ = .51 and Isolation  $\alpha$ = .76. For the happiness scale, the internal consistency values found were  $\alpha$ = .75, for the self-efficacy  $\alpha$ = .78 and for the future expectations  $\alpha$ = .77 (see table 2).

	Factor	Items	Ν	M	SD	Cronbach
	Emotional Capability	5	268	18,5	2,8	.80
Mental Health Knowledge and	Problem Solving Capability	5	268	21,1	2,2	.69
Autudes	Motivation	4	268	17,6	1,9	.72
	Opportunity	4	268	14,1	2,3	.70
DANAS	Positive Affects	10	275	35,7	5,5	.89
ranas	Negative Affects	10	275	16,1	5,2	.84
	Demotivation	5	182	11,4	2,4	.69
Alienation	Instability	3	182	8,7	1,6	.51
	Isolation	2	182	4,3	1,6	.76

Happiness	4	274	20,9	3,6	.75
Self-efficacy	4	182	15,3	2,1	.78
Future expectations	9	182	33,7	4,8	.77
Table 2 - Int	ernal consis	tency of the	he scales		

A correlation analysis was conducted between the analysed variables (see table 3). Positive associations were found between the emotional capability variable and: problem solving capability (.558), motivation (.418), opportunity (.303), happiness (.190), positive affects (.239), professional satisfaction (.186), mental health literacy (.432), problem management (.205), leadership ability (.191), future expectations (.177) and self-efficacy (.331) Negative associations were shown between the emotional capability and: demotivation (-.246) and negative affects(-.127). Problem solving capability were positively correlated: motivation (.595), opportunity (.247), happiness (.323), positive affects (.322), life satisfaction (.159), professional satisfaction (.257), social environment and interpersonal relations in school (.168), mental health literacy (.191), problem management (.222), leadership ability (.185), future expectations (.285), self-efficacy (.393). On the other hand, problem solving capability were negatively correlated with: demotivation (-.245) and isolation (-.215). It was also found positive associations between motivation and: opportunity (.225), positive affects (.145), professional satisfaction (.120), self-efficacy (.226) and negative associations between motivation and: demotivation (-.217) and isolation (-.160). Positive associations between opportunity and: mental health literacy (.134). Positive associations between demotivation and: isolation (.245) and negative associations between demotivation and: happiness (-.319), positive affects (-.334), life satisfaction (-.156), professional satisfaction (-.159), social environment and interpersonal relations in school (-.260), mental health literacy (-.151), problem management (-.381), leadership ability (-.268), future expectations (-.373) and self-efficacy (-.379). Positive associations between instability and: isolation (.290), negative affects (.210) and negative associations between instability and: professional satisfaction (-.161), problem management (-.201). Positive associations between isolation and: negative affects (.286) and negative associations between isolation and: happiness (-.277), positive affects (-.225), life satisfaction (-.276), professional satisfaction (-.159), social environment and interpersonal relations in school (-.221), problem management (-

.341), leadership ability (-.222), future expectations (-.251) and selfefficacy (-.251). Positive associations between happiness and: positive affects (.552), life satisfaction (.509), professional satisfaction (.383), social environment and interpersonal relations in school (.311), problem management (.447), leadership ability (.280), future expectation (.389), self-efficacy (.483) and negative associations between happiness and: negative affects (.444). Positive associations between positive affects and: life satisfaction (.307), professional satisfaction (.329), social environment and interpersonal relations in school (.308), mental health literacy (.239), problem management (.433), leadership ability (.324), future expectations (.212), self-efficacy (.411) and negative associations between positive affects and: negative affects (-.219). Negative associations between negative affects and: life satisfaction (-.332), professional satisfaction (-.190), social environment and interpersonal relations in school (-.152), problem management (-.217), future expectations (-.179). Positive associations between life satisfaction and: professional satisfaction (.502), social environment and interpersonal relations in school (.411), mental health literacy (.198), problem management (.453), leadership ability (.302), future expectations (.251) and self-efficacy (.313). Positive associations between professional satisfaction and: social environment and interpersonal relations in school (.427), mental health literacy (.293), problem management (.354), leadership ability (.233), future expectations (.188) and self-efficacy (.202). Positive associations between social environment and interpersonal relations in school and: mental health literacy (.411), problem management (.461), leadership ability (.467) and future expectations (.217). Positive associations between mental health literacy and: problem management (.191) and leadership ability (.358). Positive associations between problem management and leadership ability (.575), future expectations (.308) and self-efficacy (.411). Positive associations between leadership ability and: future expectations (.222) and selfefficacy (.306). And finally, there are positive associations between future expectations and self-efficacy (.399).

	(2)	(3)	(4)	(5)	( <b>6</b> )	(7)	(8)	(9)	(10)	( <b>11</b> )	( <b>12</b> )	(13)	( <b>14</b> )	(15)	(16)	(17)	(18)
(1) Emotional Capability	.558 ***	.418 ***	.30 3** *	- .24 6**	.0 32	061	.190 **	.239 ***	- .127 *	.05 4	.18 6**	.099	.43 2** *	.205 **	.191 **	.177 **	.331 ***
(2) Problem Solving Capability		.595 ***	.24 7** *	- .24 5**	.0 00	- .215 **	.323 ***	.322 ***	086	.15 9**	.25 7** *	.168 **	.19 1**	.222 ***	.185 **	.285 ***	.393 ***
(3) Motivation			.22 5** *	- .21 7**	- .0 93	- .160 *	.075	.145 *	006	.02 5	.12 0*	019	.11 4	.110	.110	.128	.226 **
(4) Opportunity				.00 2	- .0 29	.050	029	.024	-019	- .09 7	.00 6	081	.13 4*	.015	010	022	.121
(5) Desmotivation					- 01 3	.245 **	- .319 ***	- .334 ***	.085	- .15 6*	- .15 9*	- .260 ***	- .15 1*	- .381 ***	- .268 ***	- .373 ***	- .379 ***
(6) Instability						.290 ***	070	089	.210 ***	- .10 7	- .16 1*	079	- .12 2	- .201 **	016	.039	-113
(7) Isolation							- .277 **	- .225 **	.286 **	- .27 6**	- .15 9*	- .221 **	- .05 2	- .341 **	- .222 **	- .251 **	- .251 **

(8) Happiness	 	 	 		.552 *	- .444 **	.50 9**	.38 3**	.311 **	.11 7	.447 **	.280 **	.389 **	.483 **
(9) Positive Affects	 	 -	 			- .219 **	.30 7**	.32 9**	.308 **	.23 9**	.433 **	.324 **	.212 **	.411 **
(10) Negative Affects	 	 	 				- .33 2**	- .19 0**	- .152 *	- .05 9	- .217 **	110	- .179 *	299
(11) Life Satisfaction	 	 	 					.50 2**	.411 **	.19 8**	.453 **	.302 **	.251 **	.313 **
(12) Professional Satisfaction	 	 	 						.427 **	.29 3**	.354 **	.233 **	.188 *	.202 **
(13) Social Environment and Interpersonal relations in school	 	 	 							.41 1**	.461 **	.467 **	.217 **	.126
(14) Mental Health Literacy	 	 	 								.191 **	.358 *	.065	.133
(15) Problem management	 	 	 -	-	-				-			.575 **	.308 **	.411 **
(16) Leadership ability	 	 	 										.222 **	.306 **
(17) Future expectations	 	 	 											.399 **
(18) Self- efficacy	 	 	 											

 Table 3 – Correlations

Regarding the results observed in the t-Student test, it was found that after training there was an increase in most of the variables analyzed: Mental Health Knowledge and Attitudes Scale: emotional capability (M = 19.6, SD = 2.8), problem solving capability (M = 21.7, SD = 2.3), motivation (M = 18, SD = 1.9), opportunity (M = 15.2, SD = 2.3); PANAS scale: positive affects (M = 37.4, SD = 5.2); happiness (M = 21.7, SD = 3.6), professional satisfaction (M = 6.7, SD = 1.6), social environment and

interpersonal relations in school (M = 7.7, SD = 1.3), self-efficacy (M = 15.8, SD = 1.9), mental health literacy (M = 7.3, SD = 1.4), problem management (M = 7.7, SD = 1.3), leadership ability (M = 7.3, SD = 1.4) and life satisfaction (M = 7.5, SD = 1.3). In the demotivation subscale (i.e., alienation scale) values decreased after training (M = 10.5, SD = 2.2) (see table 4).

		Initial (N=27	6)	Final (N=276	5)		
	Emotional Capability	M	DP	М	SD	t	р
		18.6	2.7	19.6	2.8	-7.183	.000
		Initial (N=27	6)	Final (N=276	5)		
	Problem Solving	М	DP	М	SD	t	р
	Capability	21.2	2.3	21.7	2.3	-4.549	.000
Mental Health Knowledge and Attitudes	Motivation	Initial (N=27	Initial (N=276)		5)		
		М	DP	М	SD	t	р
		17.5	1.9	18	1.9	-4.656	.000
	Opportunity	Initial (N=27	Initial (N=276)		5)		
		М	DP	М	SD	t	р
		14.4	2.3	15.2	2.3	-5.595	.000
DANAC	De sitions Affe sta	Initial (N=275)		Final (N=275	5)		
FANAS	Positive Affects	М	DP	М	SD	t	р

		35.7	5.4	37.4	5.2	-5.862	.000
		Initial (N=27	75)	Final (N=27	(5)		
	Negative Affects	М	DP	М	SD	t	р
		16.1	5.2	15.9	4.9	.817	.415
		Initial (N=18	82)	Final (N=18	2)		
	Desmotivation	М	DP	М	SD	t	р
		11.4	2.4	10.5	2.2	4.733	.000
		Initial (N=1	82)	Final (N=18	2)		
Alienation	Instability	М	DP	М	SD	t	р
Anchation		8.7	1.6	8.8		558	.578
		Initial (N=18	82)	Final (N=182)	1.7		
	Isolation	М	DP	М	SD	t	р
		4.3	1.6	4.4	1.6	269	.788
		Initial (N=27	74)	Final (N=27	(4)		
	Happiness	М	DP	М	SD	t	р
		20.9	3.6	21.7	3.6	-4.689	.000
		Initial (N=2'	74)	Final (N=27	(4)		
	Professional Satisfaction	М	DP	М	SD	t	р
		6.6	1.8	6.7	1.6	-3.971	.000
	Social Environment and	Initial (N=2'	74)	Final (N=27	(4)		
	Interpersonal relations in	М	DP	М	SD	t	р
	school	7.1	1.5	7.7	1.3	-6.808	.000
		Initial (N=1	82)	Final (N=18	32)		
	Future expectations	М	DP	М	SD	t	р
	-	33.7	4.8	34.2	4.7	-1.402	.163
		Initial (N=18	82)	Final (N=18	(2)		
	Self-efficacy	М	DP	М	SD	t	Р
		15.3	2.1	15.8	1.9	-3.957	.000
		Initial (N=27	74)	Final (N=27	(4)		
	Mental Health Literacy	М	DP	М	SD	t	р
		5.2	1.7	7.3	1.4	-18.485	.000
		Initial (N=2'	74)	Final (N=27	(4)		
	Problem management	М	DP	М	SD	t	р
		7	1.4	7.7	1.3	-8.742	.000
	Leadership ability	Initial (N=27	76)	Final (N=27	6)		
		М	DP	М	SD	t	р
		6.5	1.5	7.3	1.4	-9.954	.000
		Initial (N=2	74)	Final (N=27	(4)		
	Life Satisfaction	М	DP	М	SD	t	р
		7.2	1.4	7.5	1.3	-4.302	.000

# Table 4 -Pre and post evaluations comparisons using t-Student (paired samples)

To understand the predictive effect of the variables used in this study on Mental Health Knowledge and Attitudes Subscales, multiple linear regression analyses were conducted. In each of the models statistically significant variables were included in the correlations and a T-test analysis with a significance level greater than  $p\leq.05$ . In each model, the initial variable corresponding to the same final variable was

controlled, so that its weight did not influence the values found in the model.

The regression equation for the model of the emotional capability (final) explained 29% of the variance ( $R^2$ =.291). In this model, the explanation of the emotional capability (final) was obtained through the problem-solving capability (initial) ( $\beta$ =.428, p=.000), opportunity (initial) ( $\beta$ =.158, p=.025) and positive affects (initial) ( $\beta$ =.222, p=.006).

The model of the problem-solving capability (final) explained 20% of the variance ( $R^2$ =.209). In this model, the explanation of the problem-solving capability (final) was obtained through the emotional capability (initial) ( $\beta$ =.193, p=.032) and motivation (initial) ( $\beta$ =.276, p=.000). The model of the motivation (final) explained 12% of the variance ( $R^2$ =.121). In this model, the explanation of the motivation (final) was obtained through the problem-solving capability (initial) ( $\beta$ =.321, p=.001), positive affects (initial) ( $\beta$ =.208, p=.018) and leadership ability (initial) ( $\beta$ =.214, p=.019). Finally, the model of the opportunity (final) explained 12% of the variance ( $R^2$ =.127). In this model, the explanation of the opportunity (final) was obtained through the emotional capability (initial) ( $\beta$ =.290, p=.004) (see table 5).

# Discussion

The mental health promotion in schools is a concern described in several studies [3,10]. Teachers have an essential role in converting the school environment into a well-being context and in promoting the mental health of young people. However, it seems that academic training is not enough to deal with mental health problems [4]. Thus, teacher training plays an essential role in supporting teachers in their functions.

The aim of this study was to analyse, in terms of mental health, the impact that teacher training had on their skills, knowledge and attitudes towards mental health. The main goal of "ES'COOL" is to promote adolescents' mental health through skills enhancement of school teachers and school staff. The program aims were the development of personal and social skills, while it includes the prevention of anxiety and depression symptoms and the promotion of resiliency, and self-regulation in adolescents. The ES'COOL training was implemented with teachers from primary and secondary schools (from 1st to 12<sup>th</sup> grade), kindergarten and special education teachers covering schools from all the regions of Portugal. Two evaluation moments were carried out: the initial evaluation - one week before the beginning of the training, and the final evaluation - one week after the end of the training.

	Variable included	β	t	р	$R^2_a$	F(model fit)*
	Problem Solving Capability	.428	4.629	.000		
	(Initial)					
	Motivation (Initial)	063	755	.451		
	Opportunity (Initial)	.158	2.265	.025		
	Desmotivation (Initial)	014	186	.852		
	Instability (Initial)	080	-1.122	.264		
	Isolation (Initial)	.052	.703	.483		
	Positive Affects (Initial)	.222	2.791	.006		
Emotional Capability	Negative Affects (Initial)	096	-1.262	.209		
(Final) *	Happiness (Initial)	172	-1.785	.076		
(*Model weighted by	Life Satisfaction (Initial)	133	-1.485	.139	201	5 372
the emotional Capability -Initial)	Professional Satisfaction (Initial)	.096	1.173	.243	.291	5.572
	Social Environment and Interpersonal relations in school (Initial)	055	696	.487		
	Mental Health Literacy (Initial)	.049	.653	.515		
	Problem management (Initial)	.090	.952	.343		
	Leadership ability (Initial)	.090	1.107	.270		
	Future expectations (Initial)	.090	1.212	.227		
	Self-efficacy (Initial)	135	-1.624	.106		
	Variable included	β	t	р	$R^2a$	F(model fit)*
	Emotional Capability (Initial)	.193	2.161	.032		
	Motivation (Initial)	.276	3.612	.000		
	Opportunity (Initial)	.073	.997	.320		
	Demotivation (Initial)	.012	.151	.880		
	Instability (Initial)	023	307	.759		
	Isolation (Initial)	048	620	.536		
Problem Solving	Positive Affects (Initial)	.113	1.354	.178		
Capability (Final)*	Negative Affects (Initial)	.035	.431	.667		
(* Model weighted by	Happiness (Initial)	.090	.910	.364	.209	3.821
the Problem Solving	Life Satisfaction (Initial)	081	857	.393		
Capability -Initial)	Professional Satisfaction	.055	.646	.519		
	(Initial)					
	Social Environment and	.096	1.140	.256		
	Interpersonal relations in					
	school (Initial)					
	Mental Health Literacy (Initial)	079	926	.356		
	Problem management (Initial)	034	338	.738		

	Leadership ability (Initial)	.047	.542	.589		
	Future expectations (Initial)	.163	2.083	.039		
	Self-efficacy (Initial)	093	-1.071	.286	-	
	Variable included	β	t	р	$R^2_a$	F(model fit)*
				-		
	Emotional Capability (Initial)	.029	.286	.775		
	Problem Solving Capability	.321	3.338	.001		
	(Initial)					
Motivation (Final)*	Opportunity (Initial)	.094	1.204	.230		
(* Model weighted by	Desmotivation (Initial)	.007	.087	.931	.121	2.468
Motivation -Initial)	Instability (Initial)	101	-1.294	.197		
	Isolation (Initial)	.078	.955	.341		
	Positive Affects (Initial)	.208	2.381	.018		
	Negative Affects (Initial)	.010	.123	.903	_	
	Happiness (Initial)	187	-1.764	.080		
		014	120	000		
	Life Satisfaction (Initial)	014	139	.889	_	
	Professional Satisfaction	.052	.578	.564		
	(Initial)	042	179	622	-	
	Interpersonal relations in	042	4/0	.035		
	school (Initial)					
	Mental Health Literacy	- 177	-1 957	052	-	
	(Initial)	1//	-1.957	.032		
	Problem management (Initial)	049	469	.640		
	Leadership ability (Initial)	.214	2.378	.019	-	
	Future expectations (Initial)	032	393	605		
	i atare enpectations (initial)	.052	.575	•095		
	Self-efficacy (Initial)	059	646	.519	-	
	Self-efficacy (Initial) Variable included	059 <b>B</b>	646 t	.519 p	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included	059 β	646 t	.093 .519 p	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial)	059 β	646 t 2.887	.093 .519 p .004	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial)	059 β .290	646 <i>t</i> 2.887	.093 .519 <i>p</i> .004	<i>R<sup>2</sup>a</i>	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability	059 β .290	646 <i>t</i> 2.887 1.781	.093 .519 p .004 .077	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial)	059 β .290 .201	646 <i>t</i> 2.887 1.781	.093 .519 .004 .077	<i>R</i> <sup>2</sup> <i>a</i>	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial)	059 β .290 .201 097	646 <i>t</i> 2.887 1.781 -1.032	.093 .519 <b>p</b> .004 .077 .303	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial)	059 β .290 .201 097	646 <i>t</i> 2.887 1.781 -1.032	.093 .519 <b>p</b> .004 .077 .303	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial)	059 β .290 .201097 .029	646 <i>t</i> 2.887 1.781 -1.032 .343	.093 .519 <b>p</b> .004 .077 .303 .732	$R^2_a$	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial)	059 β .290 .201097 .029093 .127	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180	.093 .519 <b>p</b> .004 .077 .303 .732 .240	<i>R<sup>2</sup>a</i>	F(model fit)*
	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial) Isolation (Initial)	059 β .290 .201097 .029093137	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 -1.658	.093 .519 <b>p</b> .004 .077 .303 .732 .240 .099	<i>R<sup>2</sup>a</i>	F(model fit)*
Opportunity (Final)*	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial) Isolation (Initial) Positive Affects (Initial)	059 β .290 .201097 .029093137 .153 .021	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 1.785	.093 .519 p .004 .077 .303 .303 .732 .240 .099 .076	<i>R<sup>2</sup>a</i>	F(model fit)*
Opportunity (Final)* (*Model weighted by	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)	059 β .290 .201097 .029093137 .153 .034 .125	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 1.785 .394	.093 .519 p .004 .077 .303 .732 .240 .099 .076 .694	<i>R<sup>2</sup>a</i>	F(model fit)*
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)	059 β .290 .201097 .029093137 .153 .034135 .192	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 1.785 .394 -1.251 -1.032	.093 .519 p .004 .077 .303 .732 .240 .099 .076 .694 .213 .207	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial) Isolation (Initial) Positive Affects (Initial) Negative Affects (Initial) Happiness (Initial) Life Satisfaction (Initial)	$\begin{array}{c}$	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 1.785 .394 -1.251 -1.025 400	.093           .519           p           .004           .077           .303           .732           .240           .099           .076           .694           .213           .307	<i>R<sup>2</sup>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial) Isolation (Initial) Positive Affects (Initial) Negative Affects (Initial) Happiness (Initial) Life Satisfaction (Initial) Professional Satisfaction (Initial)	059         β         .290         .201        097         .029        093        137         .153         .034        135        102        037	$\begin{array}{c}575 \\646 \\ t \\ \hline \\ 2.887 \\ \hline \\ 1.781 \\ \hline \\ -1.032 \\ \hline \\ .343 \\ -1.180 \\ -1.658 \\ \hline \\ 1.785 \\ .394 \\ \hline \\ -1.251 \\ -1.025 \\409 \\ \hline \end{array}$	.093           .519           p           .004           .077           .303           .732           .240           .099           .076           .694           .213           .307           .683	<i>R<sup>2</sup>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial) Isolation (Initial) Positive Affects (Initial) Negative Affects (Initial) Happiness (Initial) Life Satisfaction (Initial) Professional Satisfaction (Initial) Scasial Environment and	$\begin{array}{c}052 \\ \hline059 \\ \hline \beta \\ \hline .290 \\ \hline .201 \\ \hline097 \\ \hline .029 \\ \hline093 \\ \hline .137 \\ \hline .153 \\ \hline .034 \\ \hline135 \\ \hline102 \\ \hline037 \\ \hline \end{array}$	646         t         2.887         1.781         -1.032         .343         -1.180         -1.658         1.785         .394         -1.251         -1.025        409	.093           .519           p           .004           .077           .303           .732           .240           .099           .076           .694           .213           .307           .683	<i>R<sup>2</sup>a</i> .127	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial) Variable included Emotional Capability (Initial) Problem Solving Capability (Initial) Motivation (Initial) Desmotivation (Initial) Instability (Initial) Isolation (Initial) Positive Affects (Initial) Negative Affects (Initial) Happiness (Initial) Life Satisfaction (Initial) Professional Satisfaction (Initial) Social Environment and Interpretations in	$\begin{array}{c}052 \\ \hline059 \\ \hline \beta \\ \hline .290 \\ \hline .201 \\ \hline097 \\ \hline .029 \\ \hline093 \\ \hline .137 \\ \hline .153 \\ \hline .034 \\ \hline135 \\ \hline102 \\ \hline037 \\ \hline132 \\ \end{array}$	$\begin{array}{c}575 \\646 \\ t \\ \hline \\ 2.887 \\ \hline \\ 1.781 \\ -1.032 \\ \hline \\343 \\ -1.180 \\ -1.658 \\ \hline \\ 1.785 \\394 \\ -1.251 \\ -1.025 \\409 \\ \hline \\ -1.494 \end{array}$	.093           .519           p           .004           .077           .303           .732           .240           .099           .076           .694           .213           .307           .683           .137	<i>R<sup>2</sup>a</i> .127	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)         Professional Satisfaction (Initial)         Social Environment and Interpersonal relations in school (Initial)	$\begin{array}{c}052 \\ \hline059 \\ \hline \beta \\ \hline .290 \\ \hline .201 \\ \hline097 \\ \hline .029 \\ \hline093 \\ \hline137 \\ \hline .153 \\ .034 \\ \hline135 \\ \hline102 \\ \hline037 \\ \hline132 \\ \end{array}$	646         t         2.887         1.781         -1.032         .343         -1.180         -1.658         1.785         .394         -1.251         -1.025        409         -1.494	.093           .519           p           .004           .077           .303           .732           .240           .099           .076           .694           .213           .307           .683           .137	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)         Life Satisfaction (Initial)         Professional Satisfaction (Initial)         Social Environment and Interpersonal relations in school (Initial)         Mental Health Literacy	$\begin{array}{c}052 \\ \hline059 \\ \hline \beta \\ \hline .290 \\ \hline .201 \\ \hline097 \\ \hline .029 \\ \hline093 \\ \hline137 \\ \hline .153 \\ \hline .034 \\ \hline135 \\ \hline102 \\ \hline037 \\ \hline132 \\ \hline176 \\ \hline \end{array}$	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 1.785 .394 -1.251 -1.025 409 -1.494 -1.979	.093         .519         p         .004         .077         .303         .732         .240         .099         .076         .694         .213         .307         .683         .137         .049	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)         Life Satisfaction (Initial)         Professional Satisfaction (Initial)         Social Environment and Interpersonal relations in school (Initial)         Mental Health Literacy (Initial)	$\begin{array}{c}052 \\ \hline059 \\ \hline \beta \\ \hline .290 \\ \hline .201 \\ \hline097 \\ \hline .029 \\ \hline093 \\ \hline137 \\ \hline .153 \\ \hline .034 \\ \hline135 \\ \hline102 \\ \hline037 \\ \hline132 \\ \hline176 \\ \hline \end{array}$	646         t         2.887         1.781         -1.032         .343         -1.180         -1.658         1.785         .394         -1.251         -1.025        409         -1.494         -1.979	.093         .519         p         .004         .077         .303         .732         .240         .099         .076         .694         .213         .307         .683         .137         .049	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)         Life Satisfaction (Initial)         Professional Satisfaction (Initial)         Social Environment and Interpersonal relations in school (Initial)         Mental Health Literacy (Initial)         Problem management (Initial)	$\begin{array}{c}052 \\ \hline059 \\ \hline \beta \\ \hline .290 \\ \hline .201 \\ \hline097 \\ \hline .029 \\ \hline093 \\ \hline137 \\ \hline .153 \\ \hline .034 \\ \hline135 \\ \hline102 \\ \hline037 \\ \hline132 \\ \hline176 \\ \hline .051 \\ \hline \end{array}$	646 <i>t</i> 2.887 1.781 -1.032 .343 -1.180 -1.658 1.785 .394 -1.251 -1.025 409 -1.494 -1.979 .479	.093         .519         p         .004         .077         .303         .732         .240         .099         .076         .694         .213         .307         .683         .137         .049         .633	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)         Life Satisfaction (Initial)         Professional Satisfaction (Initial)         Social Environment and Interpersonal relations in school (Initial)         Mental Health Literacy (Initial)         Problem management (Initial)         Leadership ability (Initial)	059         β         .290         .201        097         .029        093        137         .153         .034        135        102        037        132        176         .051         .097	$\begin{array}{c}$	.093         .519         p         .004         .077         .303         .732         .240         .099         .076         .694         .213         .307         .683         .137         .049         .633         .288	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553
Opportunity (Final)* (*Model weighted by Opportunity -Initial)	Self-efficacy (Initial)         Variable included         Emotional Capability (Initial)         Problem Solving Capability (Initial)         Motivation (Initial)         Desmotivation (Initial)         Instability (Initial)         Isolation (Initial)         Positive Affects (Initial)         Negative Affects (Initial)         Happiness (Initial)         Professional Satisfaction (Initial)         Professional relations in school (Initial)         Mental Health Literacy (Initial)         Problem management (Initial)         Future expectations (Initial)	059         β         .290         .201        097         .029        093        137         .153         .034        135        102        037        132        176         .097         .040	$\begin{array}{c}575 \\646 \\ t \\ \hline \\ 2.887 \\ \hline \\ 1.781 \\ \hline \\ -1.032 \\ \hline \\343 \\ -1.180 \\ -1.658 \\ \hline \\ 1.785 \\394 \\ -1.251 \\ \hline \\ -1.025 \\409 \\ \hline \\ -1.494 \\ \hline \\ -1.979 \\ \hline \\ .479 \\ \hline \\ 1.067 \\487 \end{array}$	.093         .519         p         .004         .077         .303         .732         .240         .099         .076         .694         .213         .307         .683         .1137         .049         .633         .288         .627	<i>R</i> <sup>2</sup> <i>a</i>	<i>F(model fit)*</i> 2.553

\* Model weighted by Opportunity (Initial)

Table 5 - Mental Health Knowledge and Attitudes - Subscales Predictors - Linear Regression (Enter Method)

The findings revealed that teachers improved most of the assessed skills and knowledge after training. The variables that had the

greatest impact on improving competences after training were problemsolving skills, motivation and leadership skills. These results are in line with studies that describe teacher training or educational community interventions as essential for the mental health promotion in the school context [7,9;10]. According to the literature [3,7], having more skills and better subjective well-being are essential factors in dealing adequately with students' problems.

These results prove to be crucial as they demonstrate the importance and need to develop more teacher training. It was also important to analyse which skills and characteristics had the most influence on the final results. Authors, such as Severiens, [8], tried to understand the most important skills that a good teacher should have, and found: interpersonal competence, pedagogical competence, content competence, competence in cooperation with parents and other professionals. In this study, some competences that were present at the beginning of the training not only improved, but also influenced the positive results obtained at the end of the training. Identifying these competences and knowledge in mental health, the teachers' own wellbeing, which is also considered another essential factor for the students' well-being [15].

Subsequently, the continuity of the work carried out on mental health promotion in the school context is fundamental, especially the work with teachers, in order to overcome the gaps in this area. It is also essential to understand the factors that influence the teacher's well-being in order to keep them motivated and able to help young people with their problems.

## **Key messages**

Teachers and school staff refer difficulties dealing with student's well-being and mental health issues, matters of upmost importance for students personal and academic well-being and optimised performance.

A Training program (ESCool) aiming at promoting teachers' and school staff knowledge and the capacity to screening mental health issues and to creating environmental school conditions that might promote a healthy ecosystem had promising positive results during a quasi-experimental trial.

ES'Cool greatest impact was upon competences such as problem-solving skills, motivation and leadership skills.

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