Impact Of Positive Psychology To Reduce Perceived Stress In Learning With Children With ASD (A Field Study On Teachers In 'Normal' Primary Schools In Jijel)

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Abstract

Inclusion of children with ASD in "normal" primary schools requires to be ready to facing some difficulties in self-efficacy, self-esteem, well-being and perceived stress and to be aware of the specific needs of children with ASD. We question how positive psychology allow to develop self-efficacy, selfesteem and well-being while reducing perceived stress of teachers of children with ASD in 'normal' primary schools? To answer that question we work out training to positive psychology based on positive emotions, benevolence, talents, strengths, virtues and qualities of teachers of children with ASD in 'normal' primary schools. This training spread on three months by reason of one day per weeks. This allows us to set up a follow-up. Also, we use Ryff Psychological Well-Being Scale, Teacher Self-Efficacy Scale, Self-Esteem Scale and Perceived Stress Scale to a sample of 25 teachers of children with ASD in 'normal' primary schools in Jijel. Our results show that before training, teachers of children with ASD in 'normal' primary schools have a weak selfefficacy, self-esteem, well-being and a high perceived stress. After six months of practice, we note a development of their self-efficacy, self-esteem, wellbeing and a diminution of their perceived stress. These results are useful to show positive psychology importance. Yet, pedagogy built on positive psychology needs a time of adaptation for teachers of children with ASD in order to obtain some beneficial results in terms of well-being, self-efficacy, self-esteem, perceived stress, mutual aid, autonomy and knowledge of the difference.

Keywords: teacher, self-esteem, self-efficacy, well-being, perceived stress, positive psychology

Introduction

Inclusion of children with ASD in "normal" primary schools is a goal pursued by institutions and teachers. It not only answers to a parental request but also to answer a principle of equality.

A lot of schools welcome children with ASD creating an educational environment in which they can improve their abilities and help them to social integration.

However, inclusion of children with ASD in "normal" primary schools requires to be ready to facing some difficulties in self-efficacy, self-esteem, well-being and perceived stress and to be aware of their specific needs.

teachers working with children with ASD in 'normal' primary schools face a number of difficulties: lack of knowledge about the condition, need to adapt to difficult behaviours, burnout, of support, inadequate training and lack of time. All of these factors have an impact on their self-efficacy, self-esteem, perceived stress and well-being. Positive psychology (Lopez, & Snyder, 2003; Snyder, & Lopez, 2002) is founded on the expansion positive emotions benevolence. kindness. enrichment of forces, virtues, qualities and talents of teachers of children with ASD in 'normal' primary schools.

Problematic

How positive psychology allow to develop self-efficacy, self-esteem and well-being while reducing perceived stress of teachers of children with ASD in 'normal' primary schools?

In order to emphasise to role of positive psychology on these concepts, we set up a training spreads on three months by reason of one day per weeks and based on positive emotions, benevolence, talents, strengths, virtues and qualities of teachers of children with ASD in 'normal' primary schools.

Hypothesis

- Before training to positive psychology, teachers of children with ASD in 'normal' primary schools would have weak scores of well-being, self-efficacy and self-esteem versus à high score of perceived stress.
- Once the training would take place, teachers of children with ASD in 'normal' primary schools would have a high score in selfefficacy, self-esteem and wellbeing and a weak score of perceived stress.

- Positive psychology helps teachers of children with ASD to develop effective teaching strategies.

Objective and importance of the study

Our aim is to study the role of positive psychology on selfefficacy, self-esteem, the sense of well-being, quality of life and perceived stress of teachers of children with ASD in 'normal' primary schools. To knowledge, this study is the first focuses on this subject. Our results deepen the current understanding of understand the role of positive psychology in terms of selfefficacy, self-esteem, the sense of well-being, quality of life and perceived stress. Also, this study makes important contributions to development of positive psychology approach for teachers of children with ASD in 'normal' primary schools.

Concept definitions

Self-efficacy is defined as the individual's belief in his or her ability to perform a type of behaviour according to expected and/or desired results. It is accompanied by a belief system that combines motivation, well-being, experience, personal control, risk involving, group effect and imagination. (Bandura, 1977, 1982; Friedman, 2003)

Self-esteem is defined as the judgement or evaluation one makes of oneself, of one's personal value. (Mills, 2003; Rosenberg, 1965; Schenker, 1985)

Perceived stress refers to disorders experienced by an individual following an unexpected event. It can have an impact on the way one thinks, feels and acts. The effects of stress can be physical (tiredness, increased heart rate): emotional (sadness, anxiety, irritability); behavioural (anxiety disorders, conduct disorders); psychological (forgetfulness, confusion. reminiscence). (Cohen et al., 1983) Quality of life is defined as a wellbeing state. It is composed on aggregated dimensions such as economic, environmental, social, political, religious, professional success, marital status, having children, life success varying according to individuals. (Burckhardt, & Anderson, 2003) Well-being definition, included in quality of life one, refers to a pleasant feeling provided by the satisfaction of various physical and psychological needs. At the same time, it is characterised by having a situation that enables the satisfaction of these same needs in terms of health, social success or self-realisation. This concept is composed of six main factors: autonomy (regulation of behaviour from within), mastery of the environment (control), positive

relationships (ability to create intimate relationships), personal (openness growth to new experiences), life goal (project) and self-acceptance (management emotions). (Diener, 1984: Goldberg, & Williams, 1988: Huppert, & Whittington, 2003; Michalos, 2014; Ryff, 2006; Veit, 1983)

Positive psychology searches the individuals' optimal functioning. (Caprara et al., 2012; Caprara et al., 2017; Caprara et al., 2009; Caprara et al., 2010; Joseph, & Wood, 2010; Linley et al., 2009; Ruch et al., 2023) It works on the discovery of the forces, qualities, talents, innate or acquired capacities, virtues. interests, abilities, creativity, desire to do good by avoiding evil. benevolence. and positive emotions of the individual. (Lopez, & Snyder, 2003) In other words it applies to prove the role of positive characteristics individual development focusing on practical based on kindness, perseverance, optimism, tolerance, forgiveness, empathy, curiosity, self-control, quality of life, wellbeing, self-efficacy, self-esteem, decrease of stress.

Seligman (2002; 2004) suggests that several positive characteristics such as positive emotions, engagement, life sense contribute to individual well-being. We consider them as fundamental

values which make a sense to life. Others searchers (Cosden et al., 2006; Fredrikson, 2001; Linley et al., 2009) add optimism allowing to be coherent, satisfied, happy, engaged and resilient facing obstacles and pressures.

In summary, practical application of positive psychology helps individual to discover himself/herself concentring on positive point and not on negative ones in order to purchase his/her personal accomplishment.

Several tools worked out in order to measure the different needed dimensions personal to accomplishment with positive psychology. These tools based on different criteria (presence in several cultures. society valorisation, obvious antonym, being an ideal to reach, which not mean diminution of the other) allow to measure emotional, social and psychological well-being.

Values In Action Inventory (Peterson, & Seligman, 2004) gathers 24 forces: creativity, curiosity, future perspective, mind learning, opening, bravery, kindness. love. persistence, excellence. humour, humility, forgiveness, leadership. team working, intelligence, social equity, caution, vitality, selfcontrol. spirituality, integrity, courtesy, hope.

Clifton Strengths finder (Asplund et al., 2007; Clifton, & Harter,

2003) regroups 34 forces: analyst, self-confidence. activation. futurist, caution, individualisation, intellectualization. charisma. development, command. contribution, communication, realization. importance, connection, positivity, context, maximization, convinced, relation, responsibility, empathy, discipline, arranger, equity, restoration, competition, include, strategy, focalization, adaptation, harmony, studious, idealist.

Realise2 (Govindji, & Linley, 2007; Linley et al., 2009) brings 60 forces: together bounce, adhesion, adventure, courage, projection, competition, gratitude, narration, catalysis, prevention, connection, centring, efficacy, humour. compassion, improvement, empathy, detail, consciousness (Sheier, & Carver, 1985), personalization, link, optimism, resilience. contradiction, incubation, ethical, inheritance. persuasion, optimization, creativity, deepening, engineering, mission, persistence, humility. solution, work, conduct, planning, responsibility, explanation, selfconscious, listening, authenticity, conscience. writing, pride, obliging, change, innovation, other acceptance, action, equity, action, judgment, curiosity, improvement, growth.

ASD is a developmental disorder that begins before the age of three and characterised by communication and interactional deficits, restricted abilities, stereotypies, intolerance to change and sensitivity dysfunction. (APA, 2013)

Previous studies

Sense of self-efficacy

Teachers' sense of self-efficacy sends back to the belief that a teacher can have an influence on children's scholar success. Several dimensions come into play in measuring teachers' self-efficacy: adaptation (unexpected events, difficult children), management (time. children resources), personality, experience, etc. (Caprara et al., 2006; Erdem, & Demirel, 2007)

Inclusion of children with ASD in "normal" primary schools is a challenge because this population have special needs. (Ozel et al., 2022)

Some searchers (Gaffney Catalano, 2018; Love, 2016; Love et al., 2019; Nazari, 2020) develops instruments measuring teachers' self-efficacy with child with ASD. They remark a link between high sense of self-efficacy, weak perceived stress and weak need of support.

Self-esteem

Baumeister et al. (2003) show that high self-esteem occasion high performance and well-being.

Fu et al. (2012) show the mediation effect of self-esteem on job burnout and self-efficacy of special education teachers. Their findings reveal that self-esteem has a mediator effect on job burnout and self-efficacy. This study does not correspond to our research theme as it focuses on the job burnout of special education teachers.

Khan et al. (2015) study the role of self-esteem and general self-efficacy in teachers' efficacy in primary schools. They point to the link between self-esteem and self-efficacy. This research is similar to our theme in that it concerns primary schools. However, it does not focus on teachers of children with ASD in 'normal' primary schools.

Şahin (2017) note that emotional intelligence and self-esteem are predictors of teacher self-efficacy. This research is interesting even if it does not deal with our research theme.

Yong et al. (2023) reveal a relationship between self-efficacy, self-esteem and empathy of teachers on autism. This study doesn't correspond to our research because it focuses on teachers' empathy towards child with ASD.

We think that authors included this concept in self-efficacy. Indeed, Bandura (1977), who theorized self-efficacy concept, evokes a link between this latter and selfesteem. Too, we find again this link in definition of these two terms. Self-efficacy refers the beliefs in capacities, while selfesteem is defined as the belief in its own value. Yet, we think that when an individual have confidence in his/her capacities, he/she self-confidence equally and inversely. In other words, who says self-efficacy says self-esteem, one not going without the other.

Perceived stress

We found three studies (Klassen, & Chiu, 2010; Love et al., 2019; Ogba et al., 2020) regarding teachers' stress. All note that stress plays a role in self-efficacy. However, this role is weighted according to teacher's experience. More teachers will be experienced, less he/she will be stressed.

We impute these few studies that perceived stress of teachers seems to be included in quality of life and well-being studies. Thus, we suppose that perceived stress is link with quality of life and well-being. Effectively, having a good well-being and having a good quality of life means not to suffer from high level of stress. Equally, we think that perceived stress of teachers of children with ASD in

'normal' primary schools would be based on different factors: parental expectations, class management, time management, need for constant adaptation, ignorance of disorder and its symptoms.

Well-being

Studies on teachers' well-being are integrated in quality of life and happiness ones. (Collie, 2014; Michalos, 2014) These ones make a connection between having a good quality of life and being well.

Positive psychology

Literature (Bekhet et al., 2012; Celestine, 2016; Diener et al., 1985; Jarden, 2011; Joseph, & Wood, 2010; Pavot, & Diener, 2008) show that people who have a positive perception of problems they face develop more resources to help themselves and the others. Some authors (Koegel, & Koegel, 1995) show that positive psychology reduces stress among parents with child with ASD.

In this sense, some training programs, based on positive psychology, have been set up for parents of child with ASD.

These programs have proved useful to reduce stress, anxiety, depression, burnout and develop self-esteem, self-efficacy, well-being and quality of life. (Ananpatiwet, & Blauw, 2016; Diener et al., 2020; Hongngam, 2003; Pongpanich et al., 2012)

Regarding teachers, researchers (Krata, 2013; Lopez, & Snyder, 2003; Swinson, & Harrop, 2012) suggest that positive psychology helps them to develop effective teaching strategies.

For children with ASD, positive psychology helps them to increase social, athletic and academic capacities. (Baker et al., 1998) Some (McEachin et al., 1993) notice that intensive and early approaches have convincing effects on this population.

Tertiary definition

Positive psychology

In our research, we designed by positive psychology psychological well-being with high Self-efficacy level of (Dellinger et al., 2008), well-being self-esteem (Ryff, 1989). (Rosenberg, 1965) against perceived stress (Cohen et al., 1983) among teachers of children with ASD. Will be designated by the calculated degree (>=average) on the respective scales.

ASD

Our study concerns integrated pupils in relation to their "autism" in "normal" schools.

Procedure

Participant

Our sample (tab. 1) consisted of 35 teachers (15 men, 20 women) of children with ASD in 'normal' primary schools in Jijel.

Table 1: Sample's information

Gender	Frequency
Male	15
Female	20
Total	35

Method

The study objective is to explore the role of positive psychology in the increasing of teachers' self-efficacy, self-esteem, sense of well-being and decreasing perceived stress in learning with children with ASD in 'normal' primary schools in Jijel.

So we set up training to positive psychology based on positive emotion, kindness, talents reinforcement, forces, and qualities of teachers of children with ASD in 'normal' primary schools.

We performed two measurements of each scales: one just before the training, the other after six months of practice.

Tools

Firstly, we set up training spreads on three months by reason of one day per weeks and based on positive emotions, benevolence, talents, strengths, virtues and qualities of teachers of children with ASD in 'normal' primary schools.

four Secondly, we use questionnaires: Ryff Psychological Well-Being Scale (Ryff, 1989), Teacher Self-Efficacy Scale (Dellinger et al., 2008), Self-Esteem Scale (Rosenberg, 1965) and Perceived Stress Scale (Cohen et al., 1983).

Positive psychology training

Training spread on three months for a day per weeks. The choice was on Saturday because this is the only available day. This allowed us to put in place a follow-up of the application of positive psychology and to answer the different questions. Thus, teachers have been able to raise their difficulties and progress made by children.

Program's training built on knowledge of the trouble and its symptoms, teaching strategies, burnout, depression, mediation, stress, positive emotions, benevolence, talents, strengths, virtues, self-esteem, self-efficacy, well-being and quality of life.

It is based on those set up for parents of child with ASD. (Ananpatiwet, & Blauw, 2016; Diener et al., 2020; Hongngam, 2003; Pongpanich et al., 2012)

Ryff Psychological Well-Being Scale

Ryff Psychological Well-Being Scale contains 84 items. It is composed of six factors: autonomy (items 1, 7, 13, 19, 25, 31, 37, 43, 67, 49, 55, 61, 73, environmental mastery (items 2, 81 14, 20, 26, 32, 38, 44, 50, 56, 62, 68, 74, 80), personal growth (items 3, 9, 15, 21, 27, 33, 39, 45. 51, 57, 63, 69, 75, 81), positive relations with others (items 4, 10, 16, 22, 28, 34, 40, 46, 52, 58, 64, 70, 76, 82), purpose in life (items 5, 11, 17, 23, 29, 35, 41, 47, 53, 59, 65, 71, 77, 83), self-acceptance (items 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84). The score is measured by a six-point Likert scale: 1 (strongly disagree), 2 (moderately disagree), 3 (slightly disagree), 4 (slightly agree), 5 (moderately agree), 6 (strongly agree). Items 1, 3, 8, 10, 11, 14, 16, 17, 18, 19, 21, 24, 26, 29, 33, 34, 35, 41, 42, 43, 44, 46, 54, 57, 58, 60, 61, 62, 64, 65, 66, 73, 74, 75, 76, 81, 83, 84 have a reversed score. Weak scores take place from 84 to 168; high scores between 420 and 504.

Teacher Self-Efficacy Scale

Teacher Self-Efficacy Scale includes 15 items. It is distributed in two factors: personal efficacy

(items 1, 5, 6, 7, 9, 10, 12, 13, 14, 15) and general efficacy (items 2, 3, 4, 8, 11). The score is measured by a six-point Likert scale: 1 (strongly disagree), 2 (somewhat disagree), 3 (disagree), 4 (agree), 5 (somewhat agree), 6 (strongly agree). Items 2, 3, 4, 8 have a reversed score. Weak scores take place from 15 to 30; high scores between 75 and 90.

Self-Esteem Scale

Self-Esteem Scale contains 10 items. The score is measured by a four-point Likert scale: 1 (strongly disagree), 2 (somewhat disagree), 3 (somewhat agree), 4 (strongly agree). Items 3, 5, 8, 9, 10, representing positive self-esteem, have a reversed score. Weak scores take place from 10 to 20; high scores between 30 and 40.

Perceived Stress Scale

Perceived Stress Scale contains 14 items. The score is measured by a five-point Likert scale: 0 (never), 1 (almost never), 2 (sometimes), 3 (fairly often), 4 (very often). Items 4, 5, 6, 7, 9, 10, 13, providing positive situations, have a reversed score. Weak scores take place from 0 to 14; high scores between 42 and 56.

Results

Table 2: before the training in positive psychology (in %)

Ryff Psychological Well-Being Scale	Teacher Self-	Self- Esteem Scale	Perceived Stress Scale
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		Efficacy Scale		
Weak level	68	89	74	12
High level	32	11	26	88

Table 3: answers purcentage in scales after six practice months

	Ryff psychological Well-Being Scale	Teacher self- efficacy scale	Self- esteem scale	Perceived stress scale
Weak level	31	42	34	75
High level	69	58	66	25

Before training (tab.2), teachers of children with ASD in 'normal' primary schools have a weak score of self-efficacy, self-esteem and well-being and a high score of perceived stress.

After six months of training (tab. 3), levels of well-being, self-efficacy and self-esteem increased while level of perceived stress decrease.

Table 4 : correlations between the three scales of positive psychology and perceived stress

	M(sd)	Ryff psychological Well-Being Scale	Teacher self- efficacy scale	Self- esteem scale	Perceived stress scale
Ryff psychological Well-Being Scale	5.29(.72)	1	.78**	.69**	71*
Teacher self- efficacy scale	4.93(.89)		1	.74**	57**

Self-esteem scale	3.52(.37)		1	62*
Perceived	1.83(1.3)			1
stress scale	1.05(1.5)			1

^{*&}lt;.05; **<.01; ***<.001

Scores (tab.4) are above of average at the level of all scales of teachers psychological well-being, versus weak scores of perceived stress scale.

Results show:

- Very significant positive correlations between Ryff psychological Well-Being Scale and Teacher self-efficacy scale ($r_{(35)} = .78$; p<.01); Ryff psychological Well-Being Scale and Self-esteem scale ($r_{(35)} = .69$; p<.01);

- Teacher self-efficacy scale and Self-esteem scale ($r_{(35)} = .74$; p<.01)
- Very significant negative correlations between Ryff psychological Well-Being Scale and Perceived Stress = -.71; p<.01); $(r_{(35)})$ Teacher self-efficacy scale and Perceived Stress $(r_{(35)} = -.57 ; p<.01); Self$ esteem scale and Perceived Stress $(r_{(35)} = -$.62; p<.01)

Table 5: correlation between well-being (positive psychology) versus PSS

Subscale	Code	M (sd)	P1	P2	P3	P3	P4	P5	P6	S1	S2	PS
Autonomy	PWB S1	5.5 (.15)	1	.81	.62 *	.53*	.74*	.59 *	.66 *	.61 *	.73	- .58 *
Environmen tal control	PWB S2	4.8 (.20)		1	.57	.72*	.61*	.64 *	.81	.59 *	.75 *	- .71 *
Self-growth	PWB S3	3.84 (.31)			1	.65*	.72*	.65 *	.59 *	.80	.75 *	- .56 *
Positive relationships with others	PWB S4	5.23 (.19)				1	.061 *	.63	.64 *	.59 *	.71 *	- .61 *

Purpose in life (PWBS)	PWB S5	4.88 (.11)			1	.59	.47 *	.58	.63	- .55 *
Self-acceptance	PWB S6	4.9 (1.4)				1	.70	.65 *	.66 *	- .54 *
General efficacy	S-E1	5.47 (.09)					1	.77 *	.56	- .66 *
Personal efficacy	S-E2	4.76 (.41)						1	.52 *	69
Self-esteem scale	SES	3.56 (.08)							1	- .75 *
Perceived stress scale	PSS	1.14 (1.78)								1

*<.05; **<.01; ***<<u>.001</u>

Results (tab.5) show significant (intra)correlations (p<.05) between all subscales (autonomy, self-acceptance, personal growth, environmental mastery, purpose in life, positive relations with other, general efficacy, personal efficacy, self-esteem) of psychological well-being.

In the same time, significant (inter) correlation between scales of well-being. (Ryff psychological Well-Being Scale, Teacher self-efficacy scale, Self-esteem scale)

We observe that negative perceived stress is significantly correlate (p<.05) with all subscales of psychological well-being.

Discussion

In accordance with our hypothesis, we observe a difference between before and after the training. Thus, starting from our results, we can affirm that positive psychology helps to increase self-efficacy, self-esteem and well-being and perceived decrease stress teachers of children with ASD in 'normal' primary schools. Indeed, before training, teachers children with ASD in 'normal' primary schools have a poor score of self-efficacy, self-esteem and well-being and a heavy score of perceived stress. After six months of training, levels of well-being, self-efficacy and self-esteem enhance while perceived stress

decline. So, we can assert that positive psychology application was be useful for these four dimensions for teachers of children with ASD in 'normal' primary schools.

Feeling of self-efficacy determines as the belief of the individual's ability to accomplish some behaviours expected by the society. (Bandura, 1977, 1982; Friedman, 2003)

Teachers' self-efficacy teachers' belief that they can have an influence on children's scholar It success. holds different dimensions: unexpected events adaptation, facing children with personalities, different holding, and time management. (Caprara et al., 2006; Erdem, & Demirel, 2007) For teachers of children with ASD in 'normal' primary schools symptoms management is added: behaviour trouble, stereotypies, adaptation difficulty to change and routine needs. (Baek et al., 2024; Ozel et al., 2022; Yong et al., 2023)

Self-esteem sends back to the judgement of individual's personal value. (Mills, 2003; Rosenberg, 1965; Schenker, 1985)

Searchers (Baumeister et al., 2003; Caprara et al., 2010; Fu et al., 2012; Khan et al., 2015; Şahin, 2017; Yong et al., 2023) reveal the mediator link of self-esteem on self-efficacy. This is confirmed by Bandura (1977) and the definition of these two concepts. This explains that there are not many studies on teachers' self-esteem. All that we can say is more their self-esteem is high, more their self-efficacy is heavy too and vice versa.

Perceived stress settles to psychical disorders experienced by an individual following an unexpected event or because of social pressure. (Cohen et al., 1983)

All studies on teachers' perceived stress (Klassen, & Chiu, 2010; Love et al., 2019; Ogba et al., 2020) notice the role of stress on self-efficacy and self-esteem. Nevertheless, this latter is moderated by teacher's experience.

Quality of life defines a well-being state composed on several dimensions. (Burckhardt, & Anderson, 2003)

Well-being denotes a pleasant feeling provided by needs satisfaction. (Diener, 1984; Goldberg, & Williams, 1988; Huppert, & Whittington, 2003; Michalos, 2014; Ryff, 2006; Veit, 1983)

Well-being and quality of life seem to go together: when someone has a good quality of life, he/she is well and vice versa. (Caprara et al., 2017; Collie, 2014; Csikszentmihalyi, 1990; Diener et al., 2020; Haller et al., 2019; Huppert, & Whittington, 2003;

King, & Napa, 1998; Michalos, 2014; Pavot, & Diener, 2008; Veit, 1983)

Positive psychology points out the individuals' optimal functioning by discovering individual's forces (Asplund et al., 2007; Clifton, & Harter, 2003; Govindji, & Linley, 2007; Linley et al., 2009; Peterson, & Seligman, 2004) and abilities and working on empathy, optimism (Cosden et al., 2006; Fredrikson, 2001; Linley et al., 2009), self-control, quality of life, well-being. self-efficacy, esteem and decrease of stress. (Caprara et al., 2012; Caprara et al., 2017; Caprara et al., 2009; Caprara et al., 2010; Joseph, & Wood, 2010; Linley et al., 2009; Lopez, & Snyder, 2003; Ruch et al., 2023: Seligman, 2002: Seligman et al., 2004)

Literature (Ananpatiwet, & Blauw, 2016; Bekhet et al.. 2012: Celestine, 2016; Diener et al., 1985: Diener et al.. 2020: Hongngam, 2003; Jarden, 2011; Joseph, & Wood, 2010; Koegel, & Koegel, 1995; Pavot, & Diener, 2008; Pongpanich et al., 2012) show that positive psychology has an impact on well-being and quality of life by decreasing stress, depression and burnout.

Besides, our results suggest that positive psychology helps them to develop their self-esteem, their self-efficacy, their well-being and their quality of life, and reduce their perceived stress. (Krata, 2013; Lopez, & Snyder, 2003; Ozel et al., 2022; Swinson, & Harrop, 2012) Thus, with positive psychology, teachers of children with ASD develop a sense of self-efficacy, self-esteem and wellbeing.

In our study, we found that it can increase self-esteem and selfefficacy of teachers of children with ASD in 'normal' primary schools. We add that using positive psychology has an impact on the reducing of their perceived stress. We also underline that positive psychology helps them to develop effective learning strategies. (Krata, 2013; Lopez, & Snyder, 2003; Swinson, & Harrop, 2012) ASD is considered as a developmental disorder characterised by several symptoms such as intolerance to change, restricted abilities. sensitivity dysfunction, stereotypies, communication and interactional deficits. (APA, 2013)

Searchers (Gaffney Catalano, 2018; Love, 2016; Love et al., 2019; Nazari, 2020) show that children with ASD are viewed as the most difficult to teach in "normal" primary schools because of their difficulties and a lack of teachers' knowledge about this disorder.

Positive psychology is viewed to help children with ASD to increase social, athletic and academic capacities (Baker et al., 1998) with the proviso that it carries out intensively and precociously. (McEachin et al., 1993)

Existing tools for measuring strengths and weakness ensure that individuals own qualities, virtues, capacities, talents. (Linley et al., 2009; McGrath, 2015; Rhee et al., 2001; Snyder, & Lopez, 2002; Wehmeyer, 2013) It is possible for teachers of children with ASD to motivate these children. increase their competence and develop effective teaching strategies.

Relation between well-being (positive psychology) and perceived stress

When teachers feel competent facing students with ASD (high degree (stat) of self-acceptance, autonomy, work environment adaptation, purpose in life, and positive relation of sufficient personal efficacy), they feel less (stat...) stess.

In the sense, some (Zee, & Koome, 2016) confirm that when positive emotions raise teachers psychological practically arise. Thus, these individuals feel better when they are aware of the control of their work. (Sheldon, Lyubomirsky, 2006) They perceive their self-efficacy and their psychological well-being. Yet, theya re better determined in terms of positive psychology.

Teachers satisfactory enter interactions with their environment. (Ryan, & Deci, 2000) According to our results, correlations are significant of positive between element Teachers psychology. are motivated and positive with their environment; they behave with autonomy and efficacy in their relationship with children with ASD; their integration programs reply to their self-esteem need obtaining better negative significant correlations with their perceived stress.

Bandura (1997)asserts that skills believes personal are effective in increasing the level of effort they spend on their work and ensuring their well-being. This would lead them to achieve the qualities related expected academic success. (Bandura, 1993) In return, Gibson and Dembo (1984) confirm a less anxious and stressed feel, less professional exhaustion according to Chwalisz et al. (1992) and less emotional reactions negative according to Schwerdtfeger et al. (2008).

Positive significant correlation positive between psychology (well-being) and self-efficacy was probed bv others searchers. (Klainin-Yobas et al., 2016) From our empirical results, we can self-acceptance, confirm that

autonomy, personal growth, positive relationship with other, environmental mastery, motivation, ambition are together significant correlated (p<.05), which they represent psychological well-being scheme.

Moreover, negative connection with stress (p<.05) allow us to say that positive psychology efficacy is a predictor of the perceived stress decreasing.

Limitations

We can't say if experience plays a role in perceived stress decreasing as highlighted on the subject. (Klassen, & Chiu, 2010; Love et al., 2019; Ogba et al., 2020) We have to do other searches including this parameter.

Pedagogy based on positive psychology needs adaptation time for teachers of children with ASD in 'normal' primary schools.

Conclusion

The findings of the present study contribute to the current literature. Thus they are useful for inform teachers working with children with ASD in 'normal' primary schools and the institution in order that this latter make the necessary to form teachers to care children with ASD.

Effectively, inclusion of children with ASD in 'normal' primary schools has some limits: teachers' depletion, feeling of rejection by the other children. Positive psychology can help teachers and the others children to develop some strategies in order to help children with ASD.

Indeed, positive psychology develop flexibility, judgement modification, means mobilization, self-esteem, well-being and self-efficacy improvement while reducing perceived stress.

In our study, teachers notice the benefits to welcome children with ASD in a "normal" class in terms of transmitting value to others children: mutual aid, autonomy, knowledge of the difference. They put forward the necessity of disposing approaches using positive psychology precociously and intensively in order to limit negative impacts. During training, these latters back up their difficulties according accompaniment of these children with specific needs, lack knowledge concerning this trouble and its symptoms, lack of support, lack of time, constant adaptation necessity, burnout risk, facing parental wills.

It would be interesting to put some training programs founded on positive psychology specially studied for teachers on the model of those which existed for parents.

Declaration of links of interest

The authors declare that they have no links of interest.

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Ethical statement

The authors agree with the ethical standards of publication. They ensure that the research described in manuscript has been carried out in accordance with ethical standards. All data are impersonal.

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Appendix

1	2	3	4	5	6
Strongly	Somewhat	Disagree	Agraa	Somewhat	Strongly
disagree	disagree	Disagree	Agree	agree	disagree

Ryff Psychological Well-Being Scale

N°	Item	Scale	1	2	3	4	5	6
1	Sometimes I change the way I think or act to be more like the people around me	Autonomy						
2	Generally speaking, I feel in control of the situation I'm in	Environmental mastery						
3	I'm not interested in activities that would open me up to new horizons	Personal growht						
4	Most people see me as loving and caring	Positive relations with others						
5	I feel good when I think about what I've achieved in the past and what I hope to achieve in the future	Purpose in ife						
6	When I look back on my life, I'm happy with the way things have turned out	Self-acceptance						
7	I'm not afraid to voice my opinions, even when they are opposed to those of most people	Autonomy						
8	The demands of everyday life often depress me	Environmental mastery						
9	Generally speaking, I feel I'm learning more and more about myself as time goes by	Personal growht						

10	It was difficult and frustrating to maintain close and intimate relationships with others	Positive relations with others			
11	I live one day at a time without really thinking about the future	Purpose in ife			
12	In general, I'm confident and positive about myself	Self-acceptance			
13	Usually, my decisions are not influenced by what other people do	Autonomy			
14	I feel different from the people and the community in which I live	Environmental mastery			
15	I'm the kind of person who likes to try new things	Personal growht			
16	I often feel alone, as I have few close friends with whom to share my interests and concerns	Positive relations with others			
17	I tend to concentrate on the present, because the future almost always brings me problems. almost always brings problems	Purpose in ife			
18	I think a lot of people I know have got a lot more out of life than I have	Self-acceptance			
19	I tend to worry about what other people think of me	Autonomy			
20	I cope quite well with the responsibilities of everyday life	Environmental mastery			
21	I don't want to try new ways of doing things; my life is fine as it is	Personal growht			

	I enjoy personal	Positive				
22	conversations with family	relations with				
	and friend	others				
22	I have a direction in life and					
23	my life has meaning	Purpose in ife				
	If I had the chance, there					
24	are many things about	Self-acceptance				
	myself that I would change	_				
	Feeling good about myself					
25	is more important to me	A				
25	than being approved of by	Autonomy				
	others					
26	I often feel overwhelmed by	Environmental				
20	my responsibilities	mastery				
	I think it's important to have					
27	new experiences that	Personal				
21	challenge the way we see	growht				
	ourselves and the world					
	I think it's important to	Positive				
28	listen when my close	relations with				
20	friends tell me about their	others				
	problems	oulers				
	My daily activities often					
29	seem insignificant and	Purpose in ife				
	unimportant					
30	I like most aspects of my	Self-acceptance				
50	personality	Beil deceptance				
31	I tend to be swayed by	Autonomy				
31	people with strong opinions	rutonomy				
	If my situation made me	Environmental				
32	unhappy, I would take	mastery				
	effective steps to change it	muster y				
	Come to think of it, I	Personal				
33	haven't really improved	growht				
	over the years					
	Not many people want to	Positive				
34	listen to me when I need to	relations with				
	talk	others	1 1	1	1	

35	I don't really know what I'm trying to achieve in life	Purpose in ife	
36	I've made mistakes in the past but, on balance, I think everything has worked out for the best	Self-acceptance	
37	People rarely persuade me to do things I don't want to do	Autonomy	
38	In general, I take good care of my finances and personal affairs	Environmental mastery	
39	In my opinion, people of all ages are able to continue to grow and develop within themselves	Personal growht	
40	I have the feeling that I'm reaping a lot of my friendships	Positive relations with others	
41	In the past, I used to set myself goals to achieve, but now it seems like a waste of time	Purpose in ife	
42	In many ways, I'm disappointed with what I've achieved in life	Self-acceptance	
43	It's more important for me to be in harmony with others than to be alone with my principles	Autonomy	
44	I find it stressful not to realise all the things I have to do every day	Environmental mastery	
45	Over time, I've come to understand many things about life and this has made me a stronger and more capable person	Personal growht	

46	It seems to me that most	Positive relations with			
46	people have more friends than I do	others			
47	I like to make plans for the future and work towards realising them	Purpose in ife			
48	On the whole, I'm proud of who I am and how I lead my life	Self-acceptance			
49	I trust my own opinions, even if they go against the general consensus	Autonomy			
50	I'm good at organising my time to fit in all the things that need to be done	Environmental mastery			
51	Over time, I feel I've developed a lot as a person	Personal growht			
52	People would describe me as a generous person willing to share my time with others	Positive relations with others			
53	I'm an active person when it comes to carrying out my projects	Purpose in ife			
54	I envy many people for the life they lead	Self-acceptance			
55	It's difficult for me to voice my own opinions on controversial subjects	Autonomy			
56	My days are very busy, but I get satisfaction from doing everything I have to do	Environmental mastery			
57	I don't like finding myself in new situations that force me to change my usual ways of doing things	Personal growht			
58	I haven't experienced many warm and trusting relationships with others	Positive relations with others			

59	There are people who wander aimlessly through life, but I'm not one of them	Purpose in ife	
60	The attitude I have towards myself is probably not as positive that most people have towards themselves	Self-acceptance	
61	I often change my mind when my friends or family disagree with my decisions	Autonomy	
62	I get frustrated when I try to plan my daily activities because I never manage to do everything I set out to do	Environmental mastery	
63	For me, life has been a continuous process of learning, change and growth	Personal growht	
64	When it comes to friendship, I often feel like I'm apart from everyone else	Positive relations with others	
65	Sometimes I feel like I've done everything there is to do in life	Purpose in ife	
66	Many times I wake up and feel discouraged about the way I've lived my life	Self-acceptance	
67	I'm not the kind of person who gives in to social pressures in the way I think or act	Autonomy	
68	My efforts to find the kind of activities and relationships I need were really fruitful	Environmental mastery	
69	I love realising how much my way of looking at things	Personal growht	

	has changed and matured				
	over the years				
	I know I can trust my	Positive			
70	friends and they know they	relations with			
	can trust me	others			
	My goals in life were more				
71	a source of satisfaction than	Purpose in ife			
	frustration				
	The past has had its ups and				
72	downs, but in general I	Self-acceptance			
	wouldn't want to change it				
	I care about how people				
73	evaluate the choices I've	Autonomy			
	made in my life				
	I have difficulty organising	Environmental			
74	my life in a satisfactory	mastery			
	way	mastery			
	I gave up a long time ago				
75	on making major	Personal			
13	improvements or changes in	growht			
	my life				
	I find it difficult to really	Positive			
76	open up when I'm talking to	relations with			
	others	others			
	I find it satisfying to think				
77	about what I've achieved in	Purpose in ife			
	life				
	When I compare myself to				
78	friends or acquaintances, I	Self-acceptance			
	feel good about myself				
	I judge myself on the basis				
	of what I consider to be				
79	important, not on the basis	Autonomy			
	of what others consider to				
	be important				
	I've managed to build a	Environmental			
80	home and a lifestyle that I	mastery			
	really enjoy				

81	There's truth in the saying that you can't teach an old monkey to make a face	Personal growht			
	My friends and I	Positive			
82	sympathise about our	relations with			
	respective problems	others			
	All in all, I'm not so sure				
83	my life counted for	Purpose in ife			
	anything				
	Everyone has their				
84	weaknesses, but I seem to	Self-acceptance			
	have more than others				

Teacher Self-Efficacy Scale

1	2	3	4	5	6
Strongly	Somewhat	Disagree	Agree	Somewhat	Strongly
disagree	disagree	Disagree	Agree	agree	disagree

N°	Item	Scale	1	2	3	4	5	6
1	When a student does better than usual, it's often because I've made a little extra effort	Personal efficacy						
2	The hours spent in classroom have little influence on the students compared to the influence of their family environment	General efficacy						
3	A student's ability to learn is essentially linked to family background	General efficacy						
4	If students have no discipline at home, they are unlikely to accept any discipline	General efficacy						
5	When a student is having difficulty with an assignment, I can usually able to adapt it to the student's level	Personal efficacy						
6	When a student gets a better mark than usual, it's usually because usually because I've found more effective ways of teach them	Personal efficacy						
7	When I really try, I can overcome the most difficult students	Personal efficacy						
8	What a teacher can achieve is very limited because a student's home environment has a major influence on his or her performance at school	General efficacy						
9	When my students' grades improve, it's usually because	Personal efficacy						

	because I've found more	
	effective teaching methods	
10	If a student quickly masters a new mathematical concept, it may be because I knew the steps involved in teaching that concept	Personal efficacy
11	If parents looked after their children more, I could do more myself	General efficacy
12	If a student can't remember the information I gave them in the previous lesson, I'll know what to do in the next lesson to make sure they do	Personal efficacy
13	If a pupil in my class is noisy and disruptive, I'm sure I know some techniques for calling him or her to order	Personal efficacy
14	If one of my students was unable to complete a task, I would be able to accurately assess whether the task was too difficult	Personal efficacy
15	Even a teacher with teaching skills can have no influence on many students	Personal efficacy

Self-Esteem Scale

1	2	3	4
Strongly disagree	Disagree	Agree	Strongly agree

N°	Item	1	2	3	4
1	I feel that I'm a person of worth, at least on an equal				
1	plane with others				
2	I feel that I have a number of good qualities				
3	All in all, I am inclined to feel that I am a failure				
4	I am able to do things as well as most other people				
5	I feel I do not have much to be proud of				

6	I take a positive attitude toward myself		
7	On the whole, I am satisfied with myself		
8	I wish I could have more respect for myself		
9	I certainly feel useless at times		
10	At times I think I am no good at all		

Perceived Stress Scale

0	1	2	3	4
Never	Rarely	Sometimes	Often	Always

N°	Items	0	1	2	3	4
1	Have you been upset because of something that					
	happened unexpectedly?					
2	Have you felt that you were unable to control the					
	important things in your life					
3	Have you felt nervous and "stressed"?					
4	Have you dealt successfully with irritating life hassles?					
5	Have you felt that you were effectively coping with					
	important changes that					
	were occurring in your life?					
6	Have you felt confident about your ability to handle					
	your personal problem?					
7	Have you felt that things were going your way?					
8	Have you found that you could not cope with all the					
	things that you had to do?					
9	Have you been able to control irritations in your life?					
10	Have you felt that you were on top of thing?					
11	Have you been angered because of things that					
	happened that were outside of					
	your control?					
12	Have you found yourself thinking about things that you					
	have to accomplish?					
13	Have you been able to control the way you spend your					
	time?					
14	Have you felt difficulties were piling up so high that					
	you could not overcome					
	them?					