

Research Journal of Psychology (RJP)

Online ISSN: 3006-7219 **Print ISSN:** 3006-7200

Volume 3, Number 2, 2025, Pages 141 – 154

Journal Home Page

https://ctrjournal.com/index.php/19/index



Effect of Protective Psychological Factors on Life Satisfaction among Acne Patients

Saba Bibi¹, Dr. Sajid Mehmood Alvi², Dr. Nighat Gul³ & Saqib Younis Alvi⁴

Email: nighatayub12345@gmail.com

⁴MS Scholar, Department Psychology, University of Haripur Khyber Pakhtunkhwa Pakistan

ARTICLE INFO			ABSTRACT
Article History: Received: Revised: Accepted: Available Online:	February April April April	25, 2025 05, 2025 09, 2025 13, 2025	The present study examing psychological factors on life. The study was based on a design. Participants comprise.
Keywords: Protective psycholosatisfaction, acne p	ogical factor atients	s, life	include both male patients (n (n = 150, 50%) from differen universities of Hazara Divisio purposive sampling technique with good psychometric prope
Corresponding Aut Dr. Nighat Gul Email: nighatayub12345@			measure protective psychologefficacy expectancies, self-conversely Pearson correlation, multiple way ANOVA, and post—hoc and and post—hoc and post—the findings of the study reversely reversely measures.
OPEN	CESS		factors positively predicted revealed demographic difference is an important addition to the results of the study will be a understand the situation of accordingly.

the effect ofprotective ines satisfaction among acne patients. cross-sectional survey research red acne patients (N = 300) that = 150, 50%) and female patients nt hospitals, clinics, colleges, and on. Data were collected by using a e. Four standardized instruments erties and reliability were used to ogical factors (optimism, positive ompassion) and life satisfaction. e regression analysis, t-test, onenalysis are applied to analyze data. ealed that protective psychological life satisfaction. Findings also nces on study variables. The study ne existing body of knowledge. The a good reference for clinicians to f acne patients and help them accordingly.

Introduction

Acne is a chronic sebaceous gland inflammation that most commonly affects people between the ages of 15 and 24. About 64% of adults in their 20s and 43% of those in their 30s say they've had acne their entire adult lives (Bhatte & Williams, 2013). 80–90% of people are predicted to experience acne by the age of 21 (Chilicka et al, 2017). Diverse nations and cultural groups have differing rates of adult and adolescent acne (Bagatin et al., 2014). According to Bhate and Williams, 85% of teens in the US have acne (Bhate & Williams, 2013). In Turkey, the general prevalence rate for youngsters between the ages of 13 and 19 was 60.7%. (Aksu et al., 2012).

¹MS Scholar, Department Psychology, University of Haripur Khyber Pakhtunkhwa Pakistan

²Assistant Professor, Department Psychology, University of Haripur Khyber Pakhtunkhwa Pakistan

³Lecturer Department Psychology University of Haripur, Khyber Pakhtunkhwa Pakistan,

According to a study on acne including Malaysian medical students, the frequency of acne was 68.1% (Muthupalaniappen et al., 2014). Another society-based research on Chinese young people and adults discovered that 33.7% of females between the ages of 15 and 19 got acne (Shen et al., 2012). According to Okoro et al., 71.7% of female junior-grade school students in South-West Nigeria between the ages of 15 and 19 had acne (Okoo et al., 2016). El-hamd et al., (2017) stated that 60% of woman junior-grade school students in Egypt had acne. Most of the earlier research we looked at indicated that teenage girls had a high prevalence of acne. The average age of patients seeking treatment for adult acne is about 24 years old, and 10% of patients visiting doctors are between the ages of 35 and 44(McConnell et al. 1998). Particularly among ethnic groups with white skin types, adult acne has been more common over the previous 15-20 years, with women experiencing it more frequently than males at all ages after adolescence greater than 20 years (Collier & Harper 2008).

Protective psychological characteristics are prone to group together; for instance, it has been demonstrated that self-compassion predicts other positive psychological traits including optimism, helpful impact, and bliss (Neff, et al., 2007). This is constant along Broaden and Build assumption of Positive Emotions, which suggests that protecting psychological factors might improve a person's choice of adaptive beliefs, behaviors, and interests. This aids in the development of personal coping mechanisms on the social, psychological, and physical levels (Fredrickson, 2014).

Protective Psychological Factors

Protective variables are personal and ecological features related to optimistic growth as well as adjustment in the face of dangerous circumstances and social settings (Lopez et al., 2019). Protective factors can work in a variety of ways. One of several protective elements is optimism. These factors can lessen the possibility of misfortune, promote the good performance or lessen the negative effects of difficulty on physical condition and welfare (Grych et al., 2015).

What Is Optimism?

According to Carver et al., (2010), optimism is a temper that facilitates between the person's outer environment and just how he or she recognizes. Optimism is linked with elevated levels of self-perception, self-regard, self-effectiveness, and assertiveness in further revisions (Cadoche et al., 2007; Garrido et al., 2009).

In individuals with diabetes, multiple sclerosis, and arthritis as well as those undergoing bone marrow transplantation and cardiac patients, Optimism has been correlated to improve health effects in studies (Fitzgerald, et al., 1989).

Optimism and Health

Theoretically, optimism has emerged as a crucial element in studies of positive and healthy psychology that seek to explain how people cope with difficult circumstances. In individuals with diabetes, multiple sclerosis, and arthritis as well as those undergoing bone marrow transplantation and cardiac patients, Optimism has been correlated to improve health effects in studies (Fitzgerald, et al., 1989). Optimism in the context of family caregiving has been the subject of a few studies, primarily among parents of disabled children (Greenberg et al., 2004) and hospitalized children (McIntos, et al., 2004; LaMontagne, et al., 2003). These studies all emphasized the value of optimism in managing stress and improving health outcomes.

The Dispositional Theory of Optimism

Charles Carver and Michael Scheier coined the terms "dispositional positivity" and "dispositional negativity." They argued that positive traits improve the possibility of pleasant things occurring to us. According to the hypothesis of dispositional optimism: optimism results in satisfying results whereas pessimism produces stressful results and greater discontent (Scheier et al., 2001).

Optimistic outcome expectations, defined as "the propensity to think that things will generally go well for one" (Scheier & Carver, 1985), may influence symptom reporting by concentrating on positive aspects, even when someone faces a severe life event, such as a serious illness (Scheier & Carver, 1987).

Positive Efficacy Expectancies

According to self-efficacy theory, self-efficacy expectancy is an acceptance of one's aptitude to effectively do a behavior. Many authors argue that cognitive variables, particularly expectancy, have an impact on performance (Kelly, 1963; Rotter, 1954; Ellis, 1963; Dulaney, 1968; Bandura, 1969; Estes, 1972; Beck, 1976).

A rising corpus of research, on the other hand, is looking into how protective psychological characteristics including apparent self-efficacy, adaptive handling, hopefulness, and other powerbuilt attributes lead to better diabetes self-care and glucose management (de Ridder et al., 2004; Yi-Frazier et al., 2012). Self-efficacy and positive efficacy expectations are clear by Bandura's social cognitive concept as beliefs in one's capability toward performing specific activities or beliefs in one's capacity to cope with general life challenges (Bandura, 1988; Schwarzer & Warner, 2013).

Self-Efficacy Theory

Corresponding to the self-efficacy notion, all procedures of psychological transformation are facilitated by variations in the person's wisdom of special command or efficacy (Bandura, 1977). This theory contends that a person's expectation of performance and consequence can be separated into binary distinct expectancies: a probability of success, which is the trust that a particular action either be or not result in a particular consequence, and a self-efficacy expectancy, which is the idea that person can or cannot accomplish the essential behaviors.

Self-compassion and optimism are examples of protective psychological characteristics (Carver & Scheier, 2014; Svendsen et al., 2016), but they are also flexible, as intervention studies have revealed. (Fournier et al., 2002; Fris et al., 2016; Massey et al., 2019).

Self-Compassion

Self-compassion means treating oneself similarly when you are going through a difficult moment, failing, or noticing anything about yourself that you loathe. Instead of stiffening your upper lip and disregarding your pain, you take a minute to ponder and ask personally, "This is tough just today," and how can I relieve and support me currently?

Compassion for any has been connected to improved psychological health outcomes such as lesser depression level, minor worry about self-evaluation, less introspection, small negative distress, and advanced life satisfaction (Neff, 2003; Leary et al., 2007). A correlational study found that self-

compassion stayed associated with a wide range of emotive well-being measures (Neff et al., 2007), including pleasant feelings and optimism, as well as greater ambition and inquisitiveness. Self-compassion has recently been presented as a significant strategy for enhancing feeling and goodness, and it has been integrated into treatment establishment (Gilbert & Irons, 2005; Neff, 2003).

According to research, self-compassion is combined with numerous positive psychological qualities. People who have higher degrees of trait self-compassion, for example, are cheerier than individuals who have lesser amounts (Hollis-Walker & Colosimo, 2011; Neff et al., 2007; Shapira & Mongrain, 2010; Smeets et al., 2014). They are also more positive, thankful, and please in general (Breen et al., 2010; Neff et al., 2007).

Self-compassion encourages well-being by making people feel appreciated, linked, and emotionally peaceful when they face problems and adversity (Gilbert, 2005). Self-compassion assists a person in modifying maladaptive forms of ideas and conduct (Neff, 2003a).

Life Satisfaction

Diener (1948) found three main signs of a satisfying life: life satisfaction, positive impact, and negative impact. According to Veenhoven (1993), life satisfaction is a measure of how an individual responds to the overall quality of life.

Diener et al. (1999) defined life satisfaction as a desire to affect change in one's life concerning one's past/future and the opinions of others about one's life. Life contentment results from a little gap between one's desires and accomplishments. (Diener et al., 2003).

Jussi Suikkanen's (2011), life satisfaction theory is fascinating: an individual is glad when "a new knowledgeable and reasonable proposed description of herself" finds that her life fulfills her perfect life strategy. The basic version of this theory has a major fault in that it assumes when someone feels like their life is going according to their ideal life plan, they are pleased.

According to research, people with disabilities and inferior health have minor life satisfaction than healthy controls (Gana et al., 2013; Rogowska et al., 2020). According to Zonash et al., (2019), University students with acne vulgaris are less satisfied with their lives than their counterparts who do not have acne.

According to a previous study, happiness in relationships and self-esteem both directly and indirectly predicted optimism (Leung, et al., 2005). Another conclusion was that self-efficacy predicted life satisfaction considerably in young adults. Similar results are found when this conclusion is compared to the literature, and a superior level of self-efficacy is what defines mental well-being. (Magaletta & Oliver, 1999) and psychosocial harmony (Cutler, 2005), as well as the association between optimism and constructive thinking, and life happiness (Caprara & Steca, 2006). Self-compassion has been linked to decrease levels of depression, self-assessing anxiety, ruminating to a lesser extent, fewer levels of adverse effects, and greater levels of life satisfaction (Neff, 2003; Leary et al., 2007). Self-compassion, which is referred to as one's overall cognitive appraisals of one's life, is seen to be beneficial in raising life satisfaction, according to a significant body of research (Diener et al., 1985). According to correlational findings, self-compassion is linked to life satisfaction. (Young et al., 2016).

Self-compassion and optimism are examples of protective psychological characteristics (Carver & Scheier, 2014; Svendsen et al., 2016), but they are also flexible, as intervention studies have revealed. (Fournier et al., 2002; Fris et al., 2016; Massey et al., 2019). These interferences remain common in protecting psychological elements such as self-compassion among general teenage and young adult populations (Neff & McGehee, 2010; Bluth & Eisenlohr-Moul, 2017) and gratitude, (Klibert et al., 2019) positive rumination, as well as the combination of various protective psychological characteristics, has been found to promote wellbeing, resilience, and self-efficacy. The impact of protective psychological aspects on enhanced health consequences is evident (Aspinwall & Tedeschi, 2010). Self-compassion, for example, remained proven to forecast additional good psychological characteristics like optimism, pleasant effect, and pleasure (Neff et al., 2007). This is consistent with the Extend and Build Theory of Happy Emotions, which states that protective psychological factors can extend one's range of adaptive ideas, behaviors, and attention, hence assisting in the development of physical, psychological, and social coping strategies (Fredrickson, 2014).

Procedure

This research was carried out under the University of Haripur's Research Committee's and the APA Declaration's ethical criteria. For collecting research data, official approval was obtained from the research departments of the relevant hospitals, clinics, colleges, and universities. The researcher individually gathered data from the subjects in the Hazara division. Before the questionnaire was given out, participants received informed consent and were notified of the study's objective. The questionnaire was made available to gather information on the participants' optimism, positive efficacy expectations, self-compassion and life satisfaction. Strict secrecy was established, and every effort was made to make the questionnaire and evaluations as comfortable as possible for the participants. After data collection, a debriefing explaining the study's nature was given to the participants. The outcome was then analyzed.

Research Instruments

Optimism

A revised life orientation test (Lot-R) (Scheier, et al., 1994) was used to evaluate optimism. Using ten LOT-R reports, the respondent's optimistic and negative future expectations are evaluated. Three of these questions evaluate optimism (eg "I usually expect the best in uncertain times"), three evaluate pessimism (eg "I rarely count on the positive things that happen to me") and the remaining four act as filler (eg "easy to relax"). Using a 5-point Likert scale differs from "strongly disagreement" (0) to "strongly agrees" (4), participants notice their consent to each item. The overall score of optimism is calculated by adding questions that evaluate optimism and pessimism (and reversal of the negative wording) while eliminating filler items. Reliability was evaluated by the calculation of Cronbach's alpha 0.76 revealing an acceptable level of internal consistency. The score from 0 to 40 shows greater optimism. Cronbach's alpha current study was 0.71.

Positive efficacy expectancies

A generalized scale of self -sufficiency was used to assess positive expectations (Schwarzer R, Jerusalem, 1995). This measures include ten items of its own report that test views on managing problems that can develop in many areas of operation (for example, "when I'm confronted with difficulty, I can generally find several solutions"). Each item is assessed on a 4-point Likert scale from "not true at all" (1) to "precisely true" (4) and the overall score ranges from 10 to 40. A

higher score means that the respondent is more confident in their ability to solve stress (ie more positive expectations). The scale is sufficiently reliable and valid (Ridder, et al., 2004; Fournier, et al., 2002). Cronbach's alpha ranges from 76 to 90 indicate internal reliability for GSE. Cronbach's alpha current study was 0.72.

Self-compassion

The form of a scale of self-compass (SCS-SF) (Raes et al., 2012) was used to assess the self-recruitment. This measure contains 12 items that evaluate how often respondents are sympathetic in themselves (when something becomes painful, I try to look at the situation). Items are evaluated on a 5-point scale, with 1 "almost never" and 5 is "almost always" (5). Within 12 items there are six sub -scales: self -confidence, self -confidence, common humanity, isolation, mindfulness and excessive identification. Inverting responses to negative items of the partial scale was obtained by the overall average of the total score of self -confidence (self -government, isolation and excessive identification). The scale has a point range of 12 to 60. Higher results mean an advanced level of self -confidence. This scale is reliable and legitimate and has a good correlation with the original form of 26 items. The scale reliability was 0.87. Cronbach's alpha current study was 0.74.

Life satisfaction

Diener, et al. (1985) developed a 5-item scale to evaluate a person's general cognitive evaluations of life satisfaction (not a rate of either positive or negative impact). To measure life satisfaction, this scale was employed. It has no reverse coding and consists of 5 items. Participants rate their agreement or disagreement with each of the five statements on a 7-point scale from 7 strongly agree to 1 strongly disagree. However, scoring should be continuous (5 Extremely Dissatisfied to 35 Extremely Satisfied), with the sum of the points for each item. The SWLS has been shown to have excellent internal consistency and moderate temporal stability with Cronbach's alpha of 0.87 and 2-month test-retest reliability of 0.82, according to Diener and his fellows. The current study's Cronbach's alpha was 0.75.

Participants

In the present study, a sample of acne patients (N = 300) with ages ranging from 16 to 30 years (M = 1.60, SD = .49) was collected from different hospitals, colleges, and universities of the Hazara Division. 150 males and 150 females were included. Data was gathered using a technique known as purposive sampling.

Analysis

The data were analyzed by SPSS using frequency, t-test, ANOVA, correlation and regression.

Results and Discussion

The recent research intended to study the effect of protective psychological factors on life satisfaction among acne patients. SPSS 20 was used for data analysis. Initially, frequencies and percentages were used to determine the demographic features. The alpha reliability coefficient and descriptive statistics were calculated. Pearson Correlation was computed to examine the relationship between variables. The impact of protective psychological factors on life satisfaction was investigated using multiple regression analysis. Finally, mean differences across demographic parameters were examined using One Way ANOVA and an independent sample t-test.

Table 1: Frequency and percentage of demographic variables (N=300)

Variables	F	%
Age		
Adolescents	119	39.7
Young Adults	181	60.3
Treatment		
Under Treatment	102	34.0
Completed Treatment	132	44.0
Not Taking Treatment	66	22.0
Gender		
Male	150	50.0
Female	150	50.0
Education		
Intermediate	83	27.7
Graduate	145	48.3
Post Graduate	72	24.0
Socioeconomic Status		
Lower Class	25	8.3
Middle Class	229	76.3
Upper Class	26	15.3
Family System		
Nuclear	165	55.0
Joint	135	45.0
Marital Status		
Married	22	7.3
Un Married	278	92.7
Food Pattern		
Junk Food	160	53.3
Healthy Food	140	46.7

Table 1 shows the frequency and percentage of all demographics of applicants. Participants belonging to young adults have a larger number (F = 181, 60.3%) compared to adolescent participants (F = 118, 39.7%). Participants who have completed the treatment of acne (F = 132, 44%) are in the numerical case greater, as equal to the coating (F = 102, 34%) and the treatment participants (F = 66, 22%). Male participants (F = 150, 50%) and women's participants (F = 150, 50%) are the same. Participants of graduates (F = 145, 48.3%) have a higher number compared to intermediate (F = 83, 27.7%) and participants in postgraduate studies (F = 72, 24%). Participants belonging to the middle class (F = 229, 76.3%) are more in the picture, as equal to the higher class (F = 26, 15.3%) and the lower class (F = 25, 8.3%). Participants belonging to the nuclear family system (F = 165, 55%) are higher in the numerical state compared to the common family system (F = 135, 45%). Unmarried (F = 278, 92.7%) are larger than married (F = 22, 7.3%). Participants who like unhealthy food (F = 160, 53.3%) have a higher number compared to participants who like healthy food (F = 140, 46.7%).

Table 2. Psychometric properties of study variables (N=300)

Variables	M	SD	Cronbach's α	Range	Skewness	Kurtosis
Optimism Scale	21.88 5.87 .71		10 - 33	.51	.42	
			147			

PEES	29.08	5.01	.72	14 - 40	.30	.21
SSC		7.95			1.38	1.13
Life Satisfaction Scale	23.76	6.12	.75	7 - 35	'/4	04

Table 2 shows the psychometric properties of the scale used in a recent study. The Cronbach scale of optimism, a scale of positive scope of efficiency expectations, and the Selfompassion scale were 0.71, 0.72 and 0.74 (> 0.70), indicating a satisfactory internal consistency. Cronbach's scale and the scale of life satisfaction was 0.75 (> 0.70), indicating an acceptable internal stability.

Table 3: Pearson correlation among study variables

Variables	1	2	3	4
1. Optimism	-	.18***	.19***	.22***
2. Positive Efficacy Expectancies		-	.13***	.26***
3. Self-Compassion			-	.21***
4. Life Satisfaction				-
5.Protective Psychological Factors				.23***

^{***}p<.001

Table 3 revealed that optimism has a significant positive relationship with positive effectiveness (R = 0.18, p <0.001) and self -confidence (r = 0.19, p <0.001) and life satisfaction (R = 0.22, p <0.001). Positive expectations of effectiveness have a significant positive association with compassion (r = 0.13, p <0.001) and life satisfaction (R = 0.26, p <0.001). Self-compassion has a significant positive correlation with life satisfaction (r = 0.21, p <0.001). The overall results of protective psychological factors have a significant positive relationship with life satisfaction (R = 0.23, p <0.001).

Table 4: Mean, Standard Deviation, and t-Values for Joint and Nuclear Family System Patients on Study Variables (N=300)

	Patients from Joint Family (n=135)			from Family				95 %	CI
Variables	M	SD	M	SD	t (298)	p	Cohen's d	LL	\mathbf{UL}
Optimism	22.42	5.50	21.42	6.25	2.76	.01	0.17	.14	2.53
PEE	29.73	5.15	28.55	4.83	2.04	.04	0.27	2.31	.04
SC	35.21	7.25	34.48	8.48	.79	.43	0.09	2.54	1.08

Note: PE=Positive Efficacy Expectancies, SC=Self-Compassion

Table 4 shows an average, standard deviation and T values for patients with joint and nuclear family system about optimism, positive expectations of efficacy plus self-confidence. The results indicate significant average differences in optimism with T (298) = 2.76, p <0.05. The finding shows that the patient from the common family system (M = 22,42, p < 0.05) significantly scored optimism compared to patients from a nuclear family system (M = 21,42, p < 0.05). Cohen's value was 0.17 (<0.50), which means a small effect size. The results indicate significant average

differences in the positive efficiency length with t (298) = 2.04, p <0.05. These findings show that patients from a common family system (M = 29,73, p <0.05) significantly achieved a higher evaluation of positive expectations of effectiveness compared to patients from a nuclear family system (M = 28,55, p <0.05). Cohen's value was 0.27 (<0.50), indicating a small effect size. The result revealed an insignificant average difference in the self-polish with t (298) = 0.79, p> 0.05. The Cohen's D was 0.09 (<0.50), which specifies a small effect size.

Table 5: Regression Coefficient of Protective Psychological Factors on Life Satisfaction

					95% CI
Variables	\boldsymbol{B}	SE	t	\boldsymbol{P}	LL , UL
Constant	21.02	2.90	7.24	.000	[15.31, 26.74]
Protective Psychological Factors	.09	.03	2.78	.006	[.03, .15]

Note. CI = Confidence Interval, R^2 =0,16, F=28.37

Table 5 illustrates the influence of protective psychological factors on life satisfaction in acne patients. The value of R2 0.16 revealed that predictors clarified 16% scattering in the result variables with F (2, 297) = 28.37, p <0.001. The finding revealed that protective psychological factors positively expect life satisfaction (β = 0.15, p <0.01).

Table 6: Regression Coefficient of Optimism, Positive Efficacy Expectancies and Self-Compassion on Life Satisfaction

					95% CI
Variables	\boldsymbol{B}	SE	t	p	LL, UL
Constant	11.49	2.79	4.125	.000	[6.01, 16.98]
Optimism	.14	.06	3.64	.001	[.15, .32]
Positive Efficacy Expectancies	.29	.07	4.17	.000	[.15, .42]
Self-Compassion	.15	.04	3.21	.001	[.05, .22]

Note. CI = Confidence Interval, R^2 =0,10, F=11.05

Table 6 illustrates the effect of optimism, positive expectations of efficacy and self-confidence in life satisfaction in acne patients. The R2 0.10 value revealed that the predictors described 10% of the dispersion in the result variable S F (3, 296) = 11.05, p <0.001. The discoveries have revealed that optimism significantly predicts life satisfaction (β = 0.14, p <0.01) and the positive expectation of efficacy has a significant positive predictor of life satisfaction (β = 0.23, p <0.001) also a significant positive predictor of life satisfaction (β = 0.18, p <0.01).

Table 7: Mean Comparison of Married and Unmarried Patients on Protective Psychological Factors (N=300)

	Married (n=22)								95% CI	
Variables	M	SD	M	SD	t(298)	P	Cohen's d	LL	UL	
Optimism	19.00	6.69	22.11	5.76	2.40	.017	-0.40	5.64	.60	
PEE	28.91	6.11	29.09	4.92	.16	.871	-0.03	2.36	2.01	
SC	34.72	8.13	35.91	5.23	.67	.500	-0.17	2.28	4.66	

Note. PEE=Positive Efficacy Expectancies, SC=Self-Compassion

Table 7 shows an average, standard deviation and t-evaluations for marital and unmarried patients on optimism, positive expectations of efficacy and selfompassion. The results specify significant average deviations in optimism with T (298) = 2.40, p <0.05. The results show those unmarried patients (M = 22,11, p <0.05) significantly scored on optimism compared to married patients (M = 19.00, p <0.05). The Cohen D was -0.40 (<0.50), which indicates a small size of the effect. The finding revealed an insignificant average difference in positive expectations of efficacy with T (298) = 0.16, p> 0.05. Cohen's value was -0.03 (<0.50), which indicates the low effect size. The finding revealed an insignificant average difference in the self-polish with t (298) = 0.67, p> 0.05. Cohen's value was -0.17 (<0.50), which indicates the low effect size.

Table 8: *Mean, Standard Deviation and One–Way Analysis of Variance in Optimism, Positive Efficacy Expectancies and Self-Compassion across Treatment (N=300)*

	Under Treatn (n = 10	nent	Comple Treatm (n= 132	nent	Not Taking Treatment (n = 66)				
Variables	M	SD	M	SD	M	SD	F(2, 297)	η^2	Post-Hoc
Optimism	22.25	6.50	21.36	5.78	22.33	4.95	.91	0.01	1>2<3
PEE	29.48	5.03	29.53	4.81	29.09	5.33	1.27	0.01	1<2<3
SC	35.81	6.07	34.01	9.27	34.85	7.57	1.49	0.01	1>2<3

Note: PEE=Positive Efficacy Expectancies, SC=Self-Compassion

Table 8 illustrates the average standard deviation and F-values for optimism, positive expectations of efficacy and self-confidence across treatment. The results indicate insignificant average differences between optimism treatment f (2 297) = 0.91, p> 0.05. The finding revealed that patients who are treated and do not use treatment have achieved optimism assessment compared to completed therapeutic patients. The value of $\eta 2$ was 0.01 (<0.20), which showed a small size of the effect. The comparison of post-hoc specified insignificant average differences between the group between each group and the other two groups. The results showed insignificant average differences in treatment with positive expectations of efficacy F (2 297) = 1.27, p> 0.05. The value of $\eta 2$ was 0.01 (<. 20), which showed a small size. Results determined by insignificant average differences between treatments in self-confidence F (2 297) = 1.49, p> 0.05. The results were revealed that patients who are under treatment scored high in self-confidence compared to patients who do not use treatment and completing therapeutic patients. The $\eta 2$ value was 0.01 (<0.20) that specified the low effect size. The comparison of post-hoc has shown insignificant average differences between the group between each group and the other two groups.

Conclusion

Contemporary analysis was carried out to explore the effect of protective psychological factors on life satisfaction in acne patients. The study revealed that protective psychological factors are positively correlated with life satisfaction among acne patients. Patients from a common family system score about optimism, positive expectations of efficacy and self-confidence compared to patients with nuclear family system. The study found that protective psychological factors positively predict life satisfaction with acne. Similarly, unmarried patients scored on protective factors than married patients. The results show less difference in protective psychological factors, patients who have completed treatment and who do not use treatment, and patients with lack of treatment.

References

- 1. Aksu, A.E., Metintas S., Saracoglu, Z.N., Gurel, G., Sabuncu, I., & Arikan, I., et al. (2012) Acne: prevalence and relationship with dietary habits in Eskisehir, Turkey. *J Eur Acad Dermatol Venereol.* 26(12):1503–9.
- 2. Aspinwall, L.G., & Tedeschi, R.G. (2010). The value of positive psychology for health psychology: Progress and pitfalls in examining the relation of positive phenomena to health. *Ann Behav Med.* 39(1):4-15.
- 3. Bagatin, E., Timpano, D. L., Guadanhim, L.R., Nogueira, V.M., Terzian, L.R., & Steiner D., et al. (2014). Acne vulgaris: prevalence and clinical forms in adolescents from São Paulo, Brazil. *An Bras Dermatol.* 89(3):428–35. doi: 10.1590/abd1806-4841.20142100.
- 4. Bandura, A. (1988). Social Foundations of Thought and Action: A Social Cognitive Theory. Prentice-Hall.
- 5. Bandura, A., Adams, N. E., & Beyer, J. (1977). Cognitive processes mediating behavior change. *Journal of Personality and Social Psychology*. 56, 125-139
- 6. Beck, A. T. (1976). cognitive therapy and the emotional disorders. New York: *International Universities Press*,
- 7. Bhate, K., & Williams, H.C. (2013). Epidemiology of acne vulgaris. *Br. J. Dermatol.* 168, 474–485.
- 8. Bluth, K., & Eisenlohr-Moul, T.A. (2017). Response to a mindful self-compassion intervention in teens: a within-person association of mindfulness, self-compassion, and emotional well-being outcomes. *J Adolesc.* 57, 108-118.
- 9. Breen, W. E., Kashdan, T. B., Lenser, M. L., & Fincham, F. D. (2010). Gratitude and forgiveness: Convergence and divergence on self-report and informant ratings. *Personality and Individual Differences*, 49, 932–937.
- 10. Cadoche, L., Tomatis, J.P. & Frank, F. (2007). Habilidades sociales y rendimiento en un entorno de aprendizaje cooperativo. *Fac. Cienc.* Vet. 1, 31–36.
- 11. Caprara, G. V., & Steca, P. (2006). The contribution of self-regulatory efficacy beliefs in managing affect and family relationship on positive thinking and hedonic balance. *Journal of Social and Clinical Psychology*, 25(6), 603–627. http://dx.doi.org/10.1521/jscp.2006.25.6.603.
- 12. Carver, C.S., & Scheier, M.F. (2014). Dispositional optimism. *Trends Cogn Sci.* 18(6), 293-299.
- 13. Carver, C.S., Scheier, M.F. & Segerstrom, S.C. (2010). Optimism. Clin. *Psychol.* Rev. 30, 879–889.
- 14. Chilicka, K., Maj, J., & Panaszek, B. (2017). General quality of life of patients with acne vulgaris before and after performing selected cosmetological treatments. *Patient Prefer. Adherence*.11, 1357–1361.
- 15. Collier, C.N., Harper, J.C., & Cafardi, J.A., *et al.* (2008). The prevalence of acne in adults 20 years and older. *J Am Acad Dermatol*. 58(1): 56–9.
- 16. Cutler, C. G. (2005). Self-efficacy and social adjustment of patients with mood disorder. *J Am Psychiatry Nurses Assoc*, 11(5), 283-289.
- 17. de Ridder, D., Fournier, M., & Bensing, J. (2004). Does optimism affect symptom report in chronic disease? What are its consequences for self-care behaviour and physical functioning? *J Psychosom Res*. 56(3), 341-350.
- 18. Diener, E. (1984). Subjective well-being. Psychological bulletin, 95, 542-575.
- 19. Diener, E. D., Emmons, R. A., Larsen, R. J., & Griffin, S. (1985). The satisfaction with life scale. *Journal of Personality Assessment*, 49(1), 71–75.

- 20. Diener, E., Oishi, S., & Lucas, R. E. (2003). Personality, culture, and subjective well-being: http://dx.doi.org/10.1177/1078390305282335
- 21. Diener, E., Suh, E. M., Lucas, R. E., & Smith, H. L. (1999). Subjective well-being: Three decades of progress. Psychological bulletin, 125(2), 276-302. Retrieved from https://internal.psychology.illinois.edu/~ediener/Documents/Diener-Suh-LucasSmith_1999. Pdf
- 22. Dulaney, D. E. (1968). Awarenesq, rules and propositional control; a confrontation with S-R behavior theory. In D. Horton & T. Dixon (Eds.), Verbal behavior and S-R theory. Englewood Cliffs, N. J. *Prentice-Hall*.
- 23. El-Hamd, M.A., Nada, E.E.A., Moustafa, M.A., & Mahboob-Allah, R.A. (2017). Prevalence of acne vulgaris and its impact of the quality of life among secondary schoolaged adolescents in Sohag Province, Upper Egypt. *J Cosmet Dermatol*.16(3):370–3. doi: 10.1111/jocd.12328.
- 24. Ellis, A. (1963). Reason and emotion in psychotherapy. New York. Lyle Stewart.
- 25. Estes, W. I. (1972). Reinforcement in human behavior. American Scientist. 60, 723-729
- 26. Fitzgerald, T.F., Tennen, H., Affleck, G., & Prantsky, G.S. (1989). The relevant importance of dispositional optimism and control appraisals in quality of life after coronary artery bypass surgery. *J Behav Med.* 16, 25–43.
- 27. Fournier, M., de Ridder, D., & Bensing, J. (2002). Optimism and adaptation to chronic disease: the role of optimism in relation to self-care options of type 1 diabetes mellitus, rheumatoid arthritis and multiple sclerosis. *Br J Health Psychol.* 7(4), 409-432.
- 28. Fredrickson, B.L. (2014). Positive emotions broaden and build. *Advances in Experimental Social Psychology*. Vol 47. Elsevier, 1-53.
- 29. Friis, A.M., Johnson, M.H., Cutfield, R.G., & Consedine, N.S. (2016). Kindness matters: a randomized controlled trial of a mindful self-compassion intervention improves depression, distress, and HbA1c among patients with diabetes. *Diabetes Care*. 39(11), 1963-1971.
- 30. Gana, K., Bailly, N., Saada, Y., Joulain, M., Trouillet, R., Hervé, C. & Alaphilippe D. (2013). Relationship between life satisfaction and physical health in older adults: A longitudinal test of cross-lagged and simultaneous effects. *Health Psychol.* 32, 896–904. doi: 10.1037/a0031656.
- 31. Garrido, E., Ortega, N., Escobar, J. & García, R. (2000). Evaluación de la asertividad en estudiantes universitarios conbajo rendimiento académico. Rev. Cient. Electron. Psicol. 9, 53–69.
- 32. Gilbert, P., & Irons, C. (2005). Focused therapies and compassionate mind training for shame and self-attacking. In P. Gilbert (Ed.), Compassion: Conceptualizations, research and use in psychotherapy (pp. 263–325). *London: Routledge*.
- 33. Greenberg, J.S., Seltzer, M.M., Krauss, M.W., Chou, R.J.A., & Hong, J. (2004). The effect of quality of the relationship between mothers and adult children with Schizophrenia, Autism, or Down syndrome on maternal well-being: the mediating role of optimism. *Amer J Orthopsychiatr*, 74(1), 14–25.
- 34. Hollis-Walker, L., & Colosimo, K. (2011). Mindfulness, self-compassion, and happiness in nonmeditators: A theoretical and empirical examination. *Personality and Individual Differences*, 50, 222-227
- 35. Kelly, G. A. (1963). A theory of personality: The psychology of personal constructs. New York. *Norton*.
- 36. Klibert, J., Rochani. H., Samawi, H., Leleux-LaBarge, K., & Ryan, R. (2019). The impact of an integrated gratitude intervention on positive affect and coping resources. *Int J Appl Posit Psychol.* 3(1), 23-41.

- 37. LaMontagne, L.L., Hepworth, J.T., Salisbury, M.H., & Riley, L.P. (2003). Optimism, anxiety, and coping in parents of children hospitalized for spinal surgery. *Appl Nurses*. 16(4), 228–235.
- 38. Leary, M.R., Tate, E.B., Adams, C.E., Allen, A.B., & Hancock, J. (2007). Self-compassion and reactions to unpleasant self-relevant events: The implications of treating oneself kindly. *Journal of Personality and Social Psychology*. 92, 887–904.
- 39. León, A., Rodríguez, C., Ferrel, F. & Ceballos, G. (2009). Asertividad y autoestima en estudiantes de primer semester de la facultad de ciencias de la salud de una universidad pública de la ciudad de Santa Marta (Colombia). *Psicol. Caribe*. 24, 91–105.
- 40. Lopez, S. J., Pedrotti, J., T. & Snyder, C. R. (2019). *Positive psychology: The scientific and practical explorations of human strength*. Sage.
- 41. Magaletta, P. R., & Oliver, J. M. (1999). The hope construct, will, and ways: their relations with self-efficacy, optimism, and general well-being. *J Clin Psychol*, 55, 539-551. http://dx.doi.org/10.1002/1097-4679(199905)
- 42. Massey, C.N., Feig, E.H., Duque-Serrano, L., Wexler, D., Moskowitz, J.T., Huffman, J.C. (2019). Well-being interventions for individuals with diabetes: a systematic review. *Diabetes Res Clin Pract.* 147, 118-133.
- 43. McConnell, R.C., Fleischer, A.B., Jr., Williford, P.M., & Feldman, S.R. (1998). Most topical tretinoin treatment is for acne vulgaris through the age of 44 years: an analysis of the National Ambulatory Medical Care Survey, 1990–1994. *J Am Acad Dermatol.* 38(2 Pt 1): 221–6.
- 44. McIntosh, B.J., Stern, M., & Ferguson, K.S.(2004). Optimism, coping and psychological distress: maternal reactions to NICU hospitalization. *Child Health Care*. 33(1), 59–76.
- 45. Muthupalaniappen L., Tan, H.C., Puah, J.W., Apipi, M., Sohaimi, A.E., & Mahat, N.F., et al. (2014). Acne prevalence, severity and risk factors among medical students in Malaysia. *Clin Ter*.165(4):187–92.
- 46. Neff, K. D. (2003a). Self-compassion: An alternative conceptualization of a healthy attitude toward oneself. *Self and Identity*, 2, 85–101. doi:10.1080/15298860309032.
- 47. Neff, K. D., Pisitsungkagarn, K., & Hsieh, Y. P. (2007). Self-compassion and self-construal in the United States, Thailand, and Taiwan. *Journal of Cross-Cultural Psychology*, 39(3), 267–285.
- 48. Neff, K.D., & McGehee, P. (2010) Self-compassion and psychological resilience among adolescents and young adults. *Self Identity*, 9(3), 225-240.
- 49. Neff, K.D., Rude, S.S., & Kirkpatrick, K.L. (2007). An examination of self-compassion in relation to positive psychological functioning and personality traits. *Journal of Research in Personality*, 41, 908–916.
- 50. Okoro, E., Ogunbiyi, A., & George, A. (2016). Prevalence and pattern of acne vulgaris among adolescents in Ibadan, south-west Nigeria. *Journal of the Egyptian Women's Dermatologic Society*. 13:7–12. doi: 10.1097/01.EWX.0000470561.85599.0d.
- 51. Rogowska, A.M., Zmaczyńska-Witek, B., Mazurkiewicz, M. & Kardasz, Z. (2020). The mediating effect of self-efficacy on the relationship between health locus of control and life satisfaction: A moderator role of movement disability. *Dis. Health J.* 100923. doi: 10.1016/j.dhjo.2020.100923.
- 52. Rotter, J. B. (1954). Social learning and clinical psychology. Englewood Cliffs, N. *J. Prentice-Hall*.
- 53. Scheier, M.F., & Carver, C.S. (1985). Optimism, coping, and health: assessment and implications of generalized outcome expectancies. *Health Psychol.* 4, 219 247.
- 54. Scheier, M.F., & Carver, C.S. (1987). Dispositional optimism and physical wellbeing: the influence of generalized outcome expectancies on health. *J Pers.* 55, 169 210.

- 55. Scheier, M.F., Carver, C.S., & Bridges, M.W. (2001). Optimism, pessimism, and psychological well-being. In E. Chang (Ed.), Optimism and pessimism: Implications for theory, research, and practice (pp. 189–216). Washington, DC: *American Psychological Association*.
- 56. Schwarzer, R., & Warner, L.M. (2013). Perceived self-efficacy and its relationship to resilience. Resilience in Children, Adolescents, and Adults. *Springer*. 139-150.
- 57. Shapira, L. B., & Mongrain, M. (2010). The benefits of self-compassion and optimism exercises for individuals vulnerable to depression. *The Journal of Positive Psychology*, 5, 377-389.
- 58. Shen, Y., Wang, T., Zhou, C., Wang, X., Ding, X., & Tian, S., et al. (2012). Prevalence of Acne Vulgaris in Chinese Adolescents and Adults: A Community-based Study of 17,345 Subjects in Six Cities. *Acta Derm Venereol*.92:40–4. doi: 10.2340/00015555-1164.
- 59. Smeets, E., Neff, K., Alberts, H., & Peters, M. (2014). Meeting Suffering With Kindness: Effects of a Brief Self-Compassion Intervention for Female College Students. *Journal of clinical psychology*, 70(9), 794-807.
- 60. Svendsen, J.L., Osnes, B., & Binder, P.E., et al. (2016). Trait self-compassion reflects emotional flexibility through an association with high vagally mediated heart rate variability. *Mind.* 7(5),1103-1113.
- 61. Yang, Y., Zhang, M., & Kou, Y. (2016). Self-compassion and life satisfaction: The mediating role of hope. Personality and Individual Differences, 98, 91–95. doi:10.1016/j.paid.2016.03.086
- 62. Yi-Frazier, J.P., Hilliard, M., Cochrane, K., & Hood, K.K. (2012). The impact of positive psychology on diabetes outcomes: *a review*. *Psychology*. 3(12), 1116-1124.
- 63. Zonash, R., Chishty, H. F., Shareef, A., Tariq, I., & Batool, M. (2019). Acne vulgaris: Effect of body image and life satisfaction on rejection sensitivity. *Pakistan Journal of Medical Research*, 58(2), 66.