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2 Security and Health as Individual Values in Western

3 Romanian Youth

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Abstract: The study of values at European and global level has gained momentum along with the theory of values launched by Schwartz. Values are dormant, hidden, unobservable and impossible to measure directly. They exist somewhere within the human being, manifested by different attitudes, depending on their degree of generality. The paradigm of basic human values implies shared universal values that are encountered in cultures all over the world. The theory of values designed by Schwartz has refined the pool of 19 basic individual values representing principles in individuals and group, further describing the dynamic relationships among them. This study presents practical evidence of the dynamics between individual values, the dynamics theorized by Schwartz in 2012. Following the development of an online questionnaire made up of 46 items with online responses options on a Lickert scale from 1 to 6, where 1 represents less important and 6 represent very important, 220 young people from Western Romania voluntarily responded. By testing the hypothesis assuming the dynamic relationship between the two values through multiple regression analysis, the results demonstrate that in Model 1, which involves a linear relationship, health explains 42% of the variance in security with a F = 161,215 significant at p < .01. In Model 2, which involves a curvilinear relationship, health explains 50% of the variance in security version with a F = 35,336 significant at p <.01. The incremental prediction optimization of 8% added by including the squared security accounts for the curve in the regression line, indicating the existence of a curvilinear relationship between security and health. The dynamic relationship demonstrates that upper limit and lower limit aspects of security, significantly influence the health value in a negative way. Normal levels of security trigger a high level of prioritization of health value. The implications of this type of relationship are discussed in explaining the value phenomenon at individual level. The study shows limits due to the selected sample, focusing exclusively on young people with higher education from the Western region of Romania. This sample was the target group of "The National Identity of Romanian Youth" project which designed this research.

Keywords: values theory, security, trust, dynamic relationship

1. Introduction

Although psychology as science has lately joined the paradigm on sustainable development, one cannot underestimate the crucial role of the human behavior in changing the cognitive frames of individuals and societies, by bringing into the scene attitudes and values that are part of the process of human decision-making. The social integration of youth and vulnerable groups in general is an important aspect of psycho-social sustainability [1].

Social sciences dealing with the study of values have not arrived at a definition consensus. As van Deth and Scarbrough [2] highlight, psychology sees value as a way of selectively guiding linked to individual preferences, motives, needs and attitudes, while sociology links the value to norms, habits, ideologies. The debate about the individual or social character of values remains in open continuity between the two sciences. Different interpretations of values in lately psychological

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literature have empowered consensus among psychologists regarding the individual attribute of values [3], [4], [5], [6].

The ten distinct values identified by Schwartz are universal due to the fact that they are sources one of the three overall solicitudes of human existence: biological needs, social interaction, and survival and wellbeing needs of individual and groups [7]. The psycho-social dissonance and congruity that individuals go through when pursuing specific values emerge in a particular system of relations among values [5], [8].

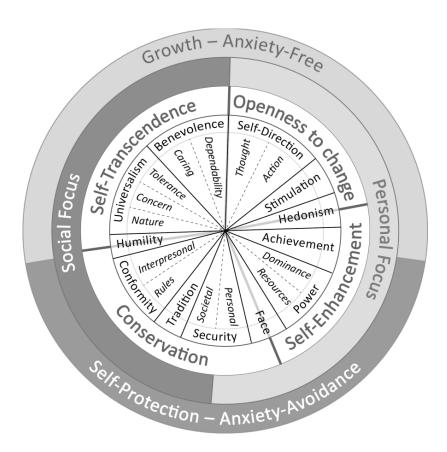


Figure 1. Circular motivational continuum of 19 values in the refined value theory [9]

As depicted in Figure 1, values that come in conflict when individuals try to pursue them simultaneously are in diametric opposition from the center; adjacent to one another, one can find congruent values that are situated in the continuum; the lateral circular proximity gives values the similarity of their latent motivations; the non-proximity of values evokes the more different their motivations, altogether forming a continuum of related motivations [9].

Schwartz comprehends the ten values as universal and exhaustive [5], [7], [10], and in 2011 he refines the theory adding to the paradigm the more obvious representation of the motivational continuum of human values. The refined theory is based on the fact that the 10 values are grouped on two polar axes, with the two extremes so called high-value guidelines. The first axis opposes openness to change (stimulation, explaining self-direction, and hedonism) and conservation (security, tradition, conformism). The second of the axis is contrasting self-realization (achievement, power and portion of hedonism) and concern for others (universalism and benevolence).

As related to examinations of the correlation between environmental sustainability education of youth and health outcomes, the authors [11] have come up with support of the fact that there were statistically significant optimizations in general health-related quality of life scores after students participated in the environmental education intervention.

2. Research methodology

The national project Identitatea Nationala a Tinerilor Romani, has been developed with the aim of deeper understanding the dynamicity of national identity aspects and personal values among youth from the West side of Romania. One of the first research questions was the depiction of the relationship between health and security, both conceptualized as conservation values, the first being oriented towards social focus and the second towards personal focus, according to Schwartz (2011). There has been designed an online questionnaire with the purpose of gathering descriptive data, also general perceptions about national identity and values.

Starting from Schwartz's three axes conservatism / autonomy, hierarchy / egalitarianism and mastery / harmony, we have designed a 46 items questionnaire including the following values: self-determination (items 1, 2, 3), stimulation (items 5, 6, 7), hedonism (8, 9, 10), achievement (12, 13, 14), power (16, 17, 18), security (20, 21, 22), conformity (23, 24, 25), tradition (27, 28, 29), benevolence (30, 31,32), universalism (33, 34), humor (36, 37, 38), trust (40, 41, 42), health (44, 45, 46) and a dissimulation scale (items 4, 11, 15, 19, 26, 35, 39, 43). We have asked respondents to score on a Likert scale (1 to 6) the relative impact of that value, where 1 means less important and 6 very important. A total of 220 responses were gathered between November and December 2018, by sharing them on social media groups of youth, for freely and voluntarily answering.

Regarding the internal consistency of the 46 items scale of values, we have obtained an alpha coefficient of 0.839, showing that the scale owns high internal consistency, knowing the fact that a reliability coefficient of 0.70 is accepted in social science research results.

Additionally we have investigated the dimensionality of the scale, using the Principal Component Analysis. Results show that the Eigen value for the first factor is twice larger than the Eigen value for the next factor (10.278 versus 5.312). Even more, the first factor accounts for 71% of the total variance, suggesting that the items of the scale are unidimensional.

Our hypothesis states that research variables security and health are in a curvilinear relationship. With the purpose of testing our hypothesis, our team has used multiple linear regression analysis, based on multiple regression analysis for curvilinear effects, where health was the dependent variable and the independent variables security.

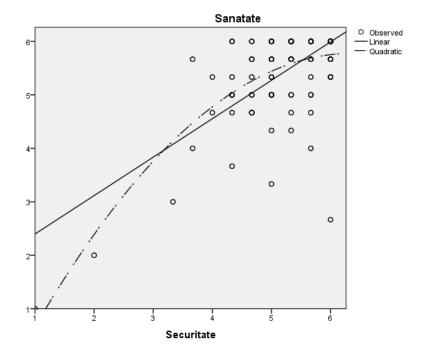
Present research was conducted on a random sample of 220 students from the West side of Romania, of both sexes, 17.3% males and 82.74% females, from both rural 42.7% and urban 57.3% environments, with 50% of participants having high school level of education, 35.5% bachelor and 14.5% master degree.

3. Results

In order to test our hypothesis that states that between health and security both conceptualized as conservation values the first being oriented towards social and the second towards self, one can depict a curvilinear relationship, our team has used a confirmatory factor analysis, based on multiple regression analysis for curvilinear effects. We describe a curvilinear relationship similar to a relationship between two variables that can be graphically seen by anything other than a line. One of particular cases of typical curvilinear relationships is represented by the situation where two variables rise together until a certain point is reached (positive correlation) after this one of the variables increases while the other decreases (negative correlation) or the other way, thus a graphically depiction of the function shows a U or an inverted U.

The curvilinear relationship can be graphically identified by a Scatterplot, adding 2 ways of representing the regression line: Linear and Quadratic model, in order to depict nonlinear effects. Figure 2 indicates the non-linear relationship between security and.

Figure 2 - Linear and quadratic curve estimation of health (sanatate) and security (securitate)



There is a very high correlation between security (m=5.22, SD=0.79) and health (m=5.43, SD=0.874) of r=.652 significant at a p<.01, which allows us in proceeding with multiple linear regression analysis [12].

With the purpose of testing the curvilinear relationship, the present study proposes a hierarchical multiple regression analysis model, having health as dependent variable, and the independent variable in step 1 security, and in step 2 security and squared security.

We have comprised in Table 1 the fitting of the 2 models, the first is the linear Model 1 and the second is the curvilinear/ quadratic Model 2. As resulted from Model 1 that supposes linear relationship, health value accounts for 42% of the variance in security value F=161.215 significant at a p<.01. In Model 2 that supposes curvilinear relationship, health accounts for 50% of the variance in security with an F=35.336 significant at a p<.01.

Table 1. The relationship between health and security as personal values, model summary, ANOVA and coefficients

Model Summary

					•				
Model	R R		Adjusted R Std. Error		Change Statistics				
		Square	Square	of the	R Square	F	df1	df2	Sig. F
				Estimate	Change	Change			Change
1	.652ª	.425	.422	.664	.425	161.215	1	218	.000
2	.711 ^b	.506	.501	.617	.081	35.336	1	217	.000

a. Predictors: Security

b. Predictors: Security, sqrt_security

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	71.069	1	71.069	161.215	.000 ^b

	Residual	96.101	218	.441		
	Total	167.170	219			
	Regression	84.526	2	42.263	110.971	$.000^{c}$
2	Residual	82.644	217	.381		
	Total	167.170	219			

a. Dependent Variable: Health

b. Predictors: Security

c. Predictors: Security, sqrt_security

Coefficients^a

			Cocincients			
Model		Unstandardized	l Coefficients	Standardized	t	Sig.
				Coefficients		
		В	Std. Error	Beta		
1	(Constant)	1.679	.299		5.624	.000
	Security	.719	.057	.652	12.697	.000
2	(Constant)	-1.412	.589		-2.395	.017
	Security	2.253	.263	2.044	8.553	.000
	sqrt_security	177	.030	-1.421	-5.944	.000

a. Dependent Variable: Health

As resulted, the totality of standardized coefficients of Beta (β = .652; β = 2.044 and β =-1.421) show significance at p<.01 that offer high consistency to Mo9del 1 and Model 2. Along with changing Beta coefficient's sign from - to + signifies that the effect is growing in the other direction, fact that demonstrates the curvilinear relationship between health and security. Further, the incremental predictive capacity of 8 percent that was added in step 2 by including the squared security variable which is accounting for the curve in the regression line, demonstrates the curvilinear relationship between health and security.

The computed curvilinear relationship shows that marginal aspects of the continuum, extremely low and extremely increased levels of security, significantly influences the health, in a negative way. Normal levels of security triggers a high level of health value prioritization. Thus a too security oriented person and a low security oriented person will envisage a low level of health value prioritization, compared to a person with normal security value prioritization that is associated with a high level of health value prioritization.

4. Discussion

The theory of basic human values measures universal values that are recognized throughout all major cultures. Schwartz's theory has refined the set of 19 basic individual values that serve as guiding principles in the life of a person or group, further describing the dynamic relationships among them. The present study presents practical evidence of the dynamics between individual values, the dynamics theorized by Schwartz in 2012. Following the development of an online questionnaire made up of 46 items with response options on a Lickert scale from 1 to 6, where 1 represents less important and 6 represent very important, 220 young people from Western Romania voluntarily responded.

The questionnaire targets the following set of values: self-determination, stimulation, hedonism, achievement, power, security, conformity, tradition, benevolence, universalism, trust, health and a scale of dissimulation. Regarding the internal fidelity of the 46-item value scale, we obtained a Cronbach alpha of 0.839, proving that items have a high internal consistency. By testing the hypothesis assuming the dynamic relationship between the two values through multiple regression analysis, the results demonstrate that in Model 1, which involves a linear relationship, health explains 42% of the variance in security with a F = 161,215 significant at p < 0.01. In Model 2, which involves a curvilinear relationship, health explains 50% of the variance in security version with a F = 35,336 significant at p < 0.01. The incremental prediction capacity of 8% added by including the squared security variable accounts for the curve in the regression line, indicating the existence of a curvilinear relationship between security and health.

5. Conclusions

The calculated curvilinear relationship demonstrates that upper and lower marginal aspects, extremely low and extremely high levels of security, significantly influence the health value in a negative way. Normal levels of security trigger a high level of prioritization of health value. The implications of this type of relationship are discussed in explaining the value phenomenon at individual level. The study shows limits due to the selected sample, focusing exclusively on young people with higher education from the Western region of Romania. This sample was the target group of "The National Identity of Romanian Youth" project which designed this research.

The implication of this finding brings evidence for values intraclass dynamic relations. As the present study shows, inside the conservation value dimension, including the tradition, conformity and security value types, there are dynamic relationship between values such security, oriented towards social and health, the same type of value oriented towards self.

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