

# The Role of Making Voluntary Function in Prognosticating and Preventing from Addiction Potential: A Survey Study Among Some Members of the Iranian Red Crescent Society

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## Research

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# Abstract

**Background:** Considering Voluntary Function (VF), the purpose of the present study was to prognosticate the addiction potential (AP) among some members of the Iranian Red Crescent Society (IRCS) in Iran. To get the research done, we made use of both correlative and descriptive methods as research methods.

**Methods:** The statistical population of the current study included all youths who have been members of the IRCS. We employed multistage cluster sampling as the sampling method. We recruited 620 active volunteers of the IRCS from 31 province and 175 cities of Iran (48.7% female and 50.1 Male mean age  $23.27 \pm 3.32$ , range 14–31 years). Iranian Addiction Potential Scale (IAPS) and Voluntary Function Inventory (VFI) have assisted us in collecting research data.

**Results:** Findings proved that there was a negative significant correlation between the AP and all measurements of VF such as protective enhancement, understanding, career, values, and motives; meaning that the more time youth spent on participating in voluntary activities, the less likely they sought to resort to misusing AP. Findings of the simultaneous-entry multiple regression has proved that volunteerism could prognosticate 15% of changes in the AP as a criterion variable.

**Conclusions:** Due to its positive features, volunteerism played a key role in prognosticating and preventing the AP. Thus, it is incumbent to draw particular attention to this worthy factor.

## Background

Addiction is one of the most ubiquitous psychological disorders (1). innumerable factors would ease drug dependence as one of the chief dilemmas of people's lives. Apart from its noxious consequences, addiction is a mentally chronic and reversible disorder that is characterized by obsessive searching and using of drugs (2, 3). The Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5), defines substance use disorder as the conglomeration of cognitive, behavioral, and physiological symptoms that illustrate a person continues using drugs despite facing substance abuse-related problems (4). Addiction is one of the fundamental predicaments that affect the hygienic, psychological, and social aspects of our lives. It threatens public health, specifically those of youths (5). Addiction is a social problem that has been infiltrated in every corner of the globe (6). Nearly 162 to 324 million people worldwide have been affected by various types of substance abuse over the past 12 months (7). Nowadays, narcotism and drug abuse among youth have been on the rise. While exploring the matter of addiction, we should take this issue into consideration that individuals are not inexplicably and unexpectedly victimized the drug abuse; rather they are gradually entangled in the process of addiction and its dependency by developing predisposing potentialities (8). Even though far-reaching efforts have been made to control the addiction potential (AP) among individuals, drug abuse has increased markedly (9).

Addiction is not something that can be simply attributed to a certain group of people (10). Rather, it traverses through a wide range of professions, social classes, and students with different levels of education. The interplay of numerous factors can result in substance abuse and addiction (11). Until recently, considerable numbers of research have mainly targeted studying effects of addiction, determinative elements hastening the emergence of addiction and its prevention. Taking these issues into account, the AP theory states that some people, unlike others, are prone to addiction provided that some conditions are met (12). According to research's, some of the prognosticating measures of addiction include social and cultural milieu, biological, interpersonal, and emotional-behavioral factors (13–15). As such, the main goal of the present study is to explore socio-psychological dynamics

in the AP (16). Making voluntary functions (VF) is one of the major socio-psychological factors that can mitigate risky behaviors (17).

Volunteering is a type of activity through which a person freely devotes his/her time to the benefit of other people, groups, or even organizations (18–20). Volunteers contribute to some organizations in two ways including reducing costs that are exerted over organizations by law and lessening the amount of budget allotted to full-time employees (21). Both society and volunteers benefit from socially voluntary actions (22). Making voluntary actions and helping out others assist volunteers in relieving their stress, dealing with depression, keeping their minds fresh, and pursuing proper goals in their lives (23). The more people get engaged in voluntarism, the more opportunities they obtain to be benefited from (24–26). This justifies why some volunteers have been successful in obtaining status in both governmental and non-governmental organizations as human resources in the forms of employees, volunteers, and clients (27, 28).

Non-governmental organizations annually recruit some members and volunteers through drawing up both intra and extra-organizational agreements with the department of education for instance (29). To enlist new members, non-governmental organizations spend much money on organizing members, holding numerous workshops, and arranging recreational camps. Additionally, an abundant number of plans are made to facilitate cooperative activities (30). Getting involved in voluntary function help unpaid assistants to palliate the side effects of difficulties they are confronted on the path of doing service (17).

Seldom does volunteerism cause people to get engaged in anti-social behaviors. There is a positive correlation between volunteerism, personal, and social advantages (31). To do voluntary services, people need not show long-term commitments. Volunteers can benefit from volunteerism even if they commit for a limited number of hours per week (23). Satisfaction, happiness, and the promotion of health are among those advantages (32).

Therefore, the feelings of happiness and fulfillment, to a great extent, prevent volunteers from inclining to hazardous, anomalous, and anti-social behaviors. It causes volunteers not to victimize others and do self-destructive deeds (33). On the other hand, the findings of some surveys have shown that stress, anxiety, depression, and a low level of fulfillment and emotional health would increase people's tendency to resort to using addictive drugs (34, 35).

Unfortunately, despite the ceaseless efforts of experts, a clear-cut preventive method has not been discovered yet (36). One possible reason can be that addiction is a multi-dimensional phenomenon. It is influenced by biological and socio-psychological factors. Since addiction is one of the most contentious issues of today's world, the present study is to explore the prognosticating role of VF in the AP among youths. On the other hand, it should be noted that previous studies have not explored the relationship between VF and AP among youth who have done VF in the Iranian Red Crescent Society (IRCS). Furthermore, less attention has been paid to the relationship between making VF and palliating anti-social behaviors. Thus, we have decided to discover whether there is any relationship between voluntarism and the AP. We also intend to understand whether voluntarism can prognosticate the AP.

## Methods

### Research Design, Statistical Population, Samples, and Sampling Method

The research design of the present study was descriptive correlational. After collecting data, we delved in to explore the correlation between two variables of VF and the AP (37). The statistical population of research included the

total number of youths who contributed to the IRCS as volunteers recruiting from 31 province and 175 cities of Iran in 2018. We employed multi-stage cluster sampling as the sampling method. The number of samples participating in the study was 620. Initially, we made arrangements and build trust with some executives of the IRCS. Thereafter, the Iranian Addiction Potential Scale (38) and Voluntary Function Inventory (39) were distributed among the participants. It is worth mentioning that we scored the total number of 595 questionnaires. While the rest were expunged from the analysis process.

## Tools

### 1- The Iranian Addiction Potential Scale (IAPS)

The Addiction Potential Scale (APS) is one of the subscales of the Minnesota Multiphasic Personality Inventory (MMPI) that has been adopted from the second version of it namely, the Addiction Potential Scale. It is a 39-item empirically derived scale that has been designed by Weed, Butcher, McKenna, and Ben-Porath in 1992 (40). Zargar (2006) has specified the afore-mentioned scale giving it an Iranian motif (IAPS) (38). Thus, in the present study, we made use of the Iranian version of the APS to evaluate the AP among some Iranian youth volunteers. It is a 36-item inventory associated with five polygraph items. The inventory is a four-item spectrum rating from strongly disagree to strongly agree with zero showing the lowest and four the highest values. The reliability of the given scale has been examined by MamSharifi et al (2020) using Cronbach's alpha coefficient (0/91) (41). Cronbach's Alpha coefficient in the present study has been 0/90 for the scale of the IAPS.

### 2- Voluntary Function Inventory (VFI)

Volunteer Function Inventory (VFI) has been proposed by Clary et al in 1998 (39). As a seven-item scale questionnaire, VFI consists of 30 questions grading from insignificant to significant with zero illustrating the lowest and seven the highest values. The inventory is made of six subscales namely protective motives (a way that a person comes across to protect himself/herself from life hardships), values (a way to express altruistic values), career (a way to develop career perspective), social interactions (a way to reinforce social relations), Understanding (a way to acquire knowledge, skill, and potency), enhancement (a way to enhance oneself). Questions 7, 9, 11, 20, and 24 allude to protective motives. Questions 3, 8, 16, 19, and 22 refer to the second subscale. Questions 1, 10, 15, 21, and 28 indicate the third subscale. Questions 2, 4, 6, 17, and 23 make a reference to the fourth subscale. Questions 12, 14, 18, 25, and 30 refer to understanding, and, finally, questions 5, 13, 26, 27, and 29 allude to enhancement. Cronbach's alpha for VFI in the workings of Greenslade and White (42), Wu, Lo and Liu (43), Philips and Philips (44) and Vociono and Polonsky (45), has been 0.89, 0.92, 0.85 and 0.82 respectively. The assessment of Cronbach's alpha in the present study for each of the subscales has shown the following values; protective motives (0/72), values (0/56), career (0/73), social (0/75), understanding (0/77), and enhancement (0/72). The total scale has been equal to 0/92.

## Results

Demographic information of respondents is shown in table (1)

Table 1  
Demographic variables

(n = 595)	
Gender	
- Male	290 (48.7%)
- Female	298 (50.1%)
Age	
- 14–19	79 (13.27%)
- 20–25	334 (56.13%)
- 26–31	167 (28.06%)
Educational Level	
- High School Diploma	31 (5.2%)
- Diploma	138 (23.3%)
- Associate's Degree	113 (19.1%)
- Bachelor's Degree	285 (48.1%)
- Master's Degree	25 (4.2%)
Years as a Member of the Red Crescent	
- 1–2	100 (16.8%)
- 3–4	189 (31.7%)
- 5–6	122 (20.5%)
- 7–8	87 (14.6%)
- More than 9	95 (15.9%)

It is worth noting that a total number of 27 people from different groupings, who have been active in the Red Crescent Organization, have not responded to the questions. They include 7 persons from the category of sexual orientation, 15 people from different age groups, 3 persons from the category of education, and 2 individuals from the grouping of the number of years informants have offered services.

Table 2  
Descriptive Statistics of the Variables Studied in the Sample

	N	Min.	Max.	M	SD	Skewness		Kurtosis	
						Value	Error	Value	Error
AP (Total)	595	1.00	87.00	23.43	12.57	1.00	0.10	1.92	0.20
VF (Protective Motives)	595	10.00	35.00	27.76	4.54	-0.64	0.10	0.31	0.20
VF (Values)	595	17.00	35.00	30.00	3.22	-0.79	0.10	0.80	0.20
VF (Career)	595	14.00	35.00	29.37	4.00	-0.80	0.10	0.52	0.20
VF (Social)	595	8.00	35.00	27.90	4.35	-0.73	0.10	0.71	0.20
VF (Understanding)	595	17.00	35.00	30.46	3.62	-0.94	0.10	0.68	0.20
VF (Enhancement)	595	17.00	35.00	30.39	3.50	-0.92	0.10	0.82	0.20
VF (Total)	595	102.00	210.00	175.90	18.92	-0.63	0.10	0.20	0.20
<i>AP</i> Addiction Potential, <i>VF</i> Voluntary Function									

Statistical data shown in Table 2 illustrates that the mean for AP is 23/43. The highest mean for the AP is 108 and the lowest is 0 (38, 41). Put it bluntly, inasmuch as the score transcends the mean, the more likely person tends to resort to misusing drugs; and insofar as the scores get lower than that of mean, the AP would decline. Table 2 also indicates that the mean for the variable of the VF is 175/90. It is worth noting that the highest score in each item of the inventory of volunteerism is 35 and the total score for the given questionnaire is 210 (39).

Table 3  
Overview of correlation coefficients between Addiction Potential and Voluntary Function

variables	1	2	3	4	5	6	7	8
1. VF (Protective Motives)	1							
2. VF (Values)	0.60**	1						
3. VF (Career)	0.61**	0.60**	1					
4. VF (Social)	0.48**	0.56**	0.58**	1				
5. VF (Understanding)	0.62**	0.62**	0.64**	0.51**	1			
6. VF (Enhancement)	0.64**	0.61**	0.65**	0.52**	0.66**	1		
7. VF (Total)	0.82**	0.80**	0.84**	0.76**	0.82**	0.83**	1	
8. AP (Total)	-0.25**	-0.35**	-0.33**	-0.27**	-0.40**	-0.31**	-0.39**	1
n = 595, **p < 0.01; AP Addiction Potential, VF Voluntary Function								

Statistical data in Table 3 displays that there is a negative significant correlation between VF and AP. To put it simply, when people do voluntary services, the less likely they tend to resort to addiction. Similarly, there is a negative significant correlation between all the subscales of VA and AP.

To evaluate the predictability of the AP, we made use of multiple regression test. Table 4 reports the results of the multiple regression analysis with total expert rated AP score as dependent variable and VF as predictor.

Table 4  
Multiple linear regression with Addiction Potential (total score) as dependent variable, and Voluntary Function as predictor.

Dimension	Variable	Coefficients	Std. Error	Coefficient B	t	P	R	R <sup>2</sup>	Durbin-Watson Coefficient
AP	(Constant)	46.254	4.925	-	9.392	.000	0.392	.153	1.802
(Total)	VF (Total)	-.132	.028	-.177	-4.714	.000			
a. Dependent Variable: AP Addiction Potential									

Given data in Table 4 displays that the variable of VF (total score) would prognosticate the AP (total score). According to the information shown in Table 4, the predictor variable of VF (Total) could prognosticate 15 percent of the AP as the criterion variable. Higher scores for Voluntary Function, indicate the low scores for Addiction Potential.

## Discussion

The findings of the research have shown that there was a negative significant correlation between VF and AP ( $P < 0/01$ ,  $-0/39$ ). Findings proved that the predictor variable of VF could prognosticate 15 percent of the AP; meaning

that the more tendency people showed to do voluntary services, the less likely they tended to resort to doing risky behaviors such as addiction. To put it more simply, the research hypothesis was proved. The interpretation of data would be like this; the higher scores people got in the test, the more likely they gravitated to VF. Therefore, it can be said that getting engaged in more VF would deplete the inclination of youths to AP. The finding was in tune with the results of the previous research (22, 46).

Millions of people do voluntary works per annum. They devote a great deal of time to it. They help and support people in need. They provide disadvantaged people with social support, financial assistance, and consultation; unpaid assistants teach them how to organize themselves as well (22). Voluntary engagement is a kind of VF that some people would prefer to practice. It is an opportunity for them to help underprivileged people (47). These actions are fruitful in nature and are highly dependent on people's free will. Volunteerism is in harmony with personal values, needs, and motives (20). Besides, volunteers are sometimes offered some ancillary benefits. For instance, they learn new skills. They are also given a chance to be recognized by others. It should not be left unmentioned that volunteers do not engage in voluntary work for the sake of receiving any reward. Nor do they involve in voluntary works for the fear of punishments (48). Volunteerism would connect you to the society at large through which you can make the surrounding a more suitable place to live in. Even doing insignificant activities can change people's lives (22). Volunteerism looks like a two-way street. Not only can it be beneficial to the public, but also you and your family. Spending time and energy on voluntary works would help you make new friends, expand your social network, and boost your social skills. Based on previous research, social network and social skills can reinforce social support (49). These all provide a source of social support which, in return, can lessen the addictive potential of drugs among youths (48, 50). Health Guide Organization (32) acknowledges that volunteerism provides bashful and withdrawn people with an opportunity to learn socially new skills. Social skills would possibly get withdrawn people out of solitude. According to previous studies, loneliness would act as a driving force in getting addicted (51, 52).

On the other hand, voluntary works are instrumental in both physical and emotional health (53). Emotional health is a factor that can prognosticate the AP. As emotional health improves, the AP decreases (32, 54, 55). Health Guide Organization (32) also states that emotional health would help people make improvements in their workplace, and meet those who are interested in doing a business in their desired field of work. Even if people would not prefer to change their occupations, volunteerism would allow them to learn important skills such as teamwork, communications, problem-solving, project planning, management, and work scheduling programs in the workplace (32). Doing business is an important preventive factor (56, 57).

Health Guide Organization (32) concedes that volunteers feel gratified while helping others. When the life expectancy is high in a certain society, social interactions, co-operation, life satisfaction, social and emotional health would proliferate (58–60). The lack of spirit for social cooperation would possibly result in depression, pessimism, the negative evaluation of incidents, indifference to social affairs and work, dwindling of work ethics, social anomalies, the prevalence of violence in social relations, divorce, and the inclination to the culture of outsiders (15, 61, 62).

To sum, it can be said that volunteerism teaches some skills to people through which they would be able to improve their weaknesses and interpersonal relations. Also, they can put their acquired skills into practice properly and get involved in less risky behaviors. In other words, voluntary activities act as a sort of preventive factor in committing hazardous behaviors. Besides doing daily chores, those people who get engaged in voluntary works would be protected from possible threats and perils.



## Limitations

One of the limitations of the study is related to the research method. The present study has nothing to do with the cause and effect relationship. Moreover, since the study primarily places emphasis on a certain group, members of the Red Crescent Organization in this respect, we should be cautious about the matter of generalization.

As a suggestion, we recommend prospective researchers to explore other variables such as emotions, beliefs, and thoughts that may encourage people to get addicted. It should be noted that cross-sectional and longitudinal studies can possibly explain the predisposing factors in addiction more appropriately.

## Conclusions

The findings of the present study show that the variable of volunteerism plays a vital role in prognosticating the addictive potential of drugs. It is incumbent that special attention is paid to the importance of volunteerism while making preventive plans. People can be persuaded to make voluntary activities by publicizing the positive effects of volunteerism. On the other hand, due to the significance of drawing attention to the issue of addiction in the whole society, the findings of the study can be employed in those organizations and centers that are mainly concerned about addiction.

## Abbreviations

AP, addiction potential; VF, Considering Voluntary Function; VFI, Voluntary Function Inventory; IRCS, Iranian Red Crescent Society; IAPS, Iranian Addiction Potential Scale

## Declarations

### Ethics approval and consent to participate

At the beginning of the questionnaire distribution session, the purpose of the study was explained for the participants and they were assured about the anonymity and confidentiality of their responses. All participants gave their signed written informed consent letters. The study protocol was approved by the Ethics committee (EC) of the Red Crescent Youth Organization “approval no: 97/23/38392”. All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and national research committee and with the 1964 Helsinki declaration and its later amendments.

### Consent for publication

Not applicable.

### Author's contributions

P. M., F. S., and P. AMS., contributed in conception, design and drafting of the manuscript. P. M. contributed in data collection. A. B., and N. A., developed the statistical design and analysis. N. H., H. R., and P. M., contributed in drafting of the manuscript. P. M. supervised the study. All authors approved the final version for submission.

### Competing interests

The authors declare no conflict of interest.

## Availability of data and material

The primary data for this study is available from the authors on direct request.

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