ASSESSMENT OF KNOWLEDGE, ATTITUDE AND PRACTICE ON VOLUNTARY BLOOD DONATION IN SHKODRA CITY. MA. Vera Asllani (Gjinaj)¹, Prof. Ass.PhD, MA. Zamira Shabani², Kristjana Pjetërgjokaj³

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Abstract

Blood is a liquid mass that is produced from the bone marrow and circulates in our body. The only source for donation is a human person. In addition, in our cityShkodra City the main donation is the family donation and about 400 units are provided by voluntary donation organized by the Albanian Red Cross, Shkodra Branch. These voluntarily donated units go mainly for people suffering with thalassemia. This is a croos-sectional, transversal, punctual and descriptive study. It was developed from January – March 2018, in Shkodra region among volunteer blood donors. The people who have been offered as volunteers of blood donation during this period (about one hundred people) have previously completed a standardized closed questionnaire. This questionnaire was self-reported, with their permission. All the colleted data was analyzed by SPSS.20 Program.

Key words: blood donation, knowledge, practice, voluntary

INTRODUCTION

Blood is a fluid mass that circulates in the veins and arteries with the function of supplying oxygen to the tissues and nutrition, transporting hormones and several of products, organizes the protective system, eliminates CO2 and the final products of metabolism. Blood is composed by plasma and figurative elements: erythrocytes, leukocytes, thrombocytes which are used on producing serum as well. (Burke, C., Lemone, P. 2004), (Scherer, J. 1991) Humans still remain the only source for blood donation enabling saving lives in need. The Red Cross of Albania provides to the Transfusion Service about 6500 -7000 blood units within a year, offered by volunteer donors. Needs for blood is much bigger than what voluntary donation gives. The Voluntary and Free Blood Donation Promotion Program in Albania started at 1993, supported by the International Federation of Red Cross and Red Crescent Societies, in an agreement with the Ministry of Health (RCA 2017). Blood donation sessions meet the criteria established by The World Health Organization (WHO) which recommends integrated strategy for blood safety and availability. Before blood donation, donors are tested for hemoglobin levels, the arterial tension is measured and a questionnaire is completed to evaluate the general health condition. Also,

before the blood is donated to people in need, it is tested for hepatitis B, hepatitis C, syphilis and HIV / AIDS, and only after we are ensured for that it is safe then is transfused to people in need. Blood processing is carried out by the National Blood Transfusion Center which provides analysis for each donor. The donation technique is implemented in accordance with all rules of the asepsis (WHO 2012).

The blood donation process and the voluntary blood donation in particular provide to the donor great health benefits. In <u>additionaddition</u>, we can emphasize that by the end of 2004, there were 149 HIV cases in Albania (WHO 2006).

Shkodra's data on blood transfusion needs for 2000-2010 show that the transfused population accounts 0.2% of the population (Shabani, Z. 2011). Unfortunately the number of people infected with HIV nowadays is increasing, and also those who are infected with HBV, HCV and syphilis. According to American Red Cross, researches published in 2012 in United States of America demonstrated that the repetition of blood donation was effective in reducing blood pressure, blood glucose, HbA1C, low-density lipoprotein/high-density lipoprotein ratio, and heart rate in patients with metabolic syndrome making blood donation not only effective in testing health problems but also having other biological benefits (RCA 2017).

MATHERIAL AND METHODS

The population under the study includes people which are voluntarily offered to donate blood in the sessions organized by the Albanian Red Cross, branch of Shkodra. The main goal is evaluating the knowledge that these people have about blood donation and also get know more about attitude and the practices of this process.

This is a cross-sectional, transversal, punctual and descriptive study. It was developed from January –March 2018, in Shkodra region among volunteer blood donors. The people who offered blood donation during this period (about one hundred people) have previously completed a standardized closed questionnaire. This questionnaire was self-reported, with their permission. All the collected data was analyzed by SPSS.20 Program.

RESULTS AND DISCUSSIONS

The people who have been offered as volunteers of blood donation during sessions, organized by the Albanian Red Cross, Shkodra branch, for the period of time January - March 2018 have completed a standardized questionnaire about blood donation. The first part of the questionnaire

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Commented [JSJ3]: Please explain. I under quantitative, qualitative or mix approach was selected? What are the did you overcome the. Disadvantages

Commented [JSJ4]: Explain a bit fur What were the key categories and an

Commented [JSJ5]: In the discussion usefulness of the results? How they c Albanian Red Cross organisation of bl Will these results have an impact on f Anything else? contains socio-demographic data and the rest consists of 21 questions where the information collected from them is divided into 4 components; knowledge of blood groups, knowledge of blood donation, attitudes and practices of blood donation.

	Tab <u>le</u> , No. 1. S	ocio - Demographics data	
Gender	%	Education	%
Female	79%	High school	3%
Male	21%	University	97%
Age group		Marital status	
18-20 year	62%	Single	82%
21-45 year	34%	Married	13%
>45 year	4%	No response	5%
Employment		Religion	
Student	81%	Muslim	39%
Unemployed	7%	Catholic	53%
Employed	11%	No response	8%
Self employed	1%		
Residence			
Urban areas	51%		
Rural areas	49%		

Table_Nr.1.Presents socio-demographics data of respondents.- Related to the data from the first table, on the socio-demographic information, we see that the imminent numbers of donors are females at 79%. The greatest number of voluntary blood donors has a university education, 97%, and the average age is 22.62 years old. This is explained by the fact that the largest number of voluntary donations was done at the university where the attendants are more appropriate for blood donation. 81% of voluntary blood donors are students, employed 11% and 7% unemployed. Regarding the religion of donors, the data shows that 53% are of the Christian faith, Muslim 39% and 8% have not declared their beliefs.

Table: No2. Knowledge of blood groups				
1. Do you know the common blood groups?	%	5.What diseases are transmissible by blood transfusion?	%	
YES	99%	HIV	91%	
NO	1%	HBV	35%	
		HCV	26%	
		Syphilis	28%	
2. Do you know your blood group?	%	Malaria	4%	

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YES	83%	CMV	7%
NO	17%	Other infections	25%
		4. Can a person be infected by receiving blood transfusion?	%
3. Blood group of respondent?	%	YES	65%
A negative	1%	NO	35%
A positive	28%		
B negative	1%	6. How often can an individual de	onate?
B positive	13%	Weekly	2%
O negative	4%	Monthly	2%
O positive	31%	3 Monthly	50%
AB negative	2%	6 Monthly	40%
AB positive	6%	Annually	3%
No response	14%	No answer	3%

Table No. 2. pPresents the data on the knowledge of blood groups. According to the data 99% of respondents know theoretically the blood groups, 83% know their blood group. Regarding to the frequency of blood groups among the volunteer donors, we see that the largest percentage is O positive, with 31%, then A positive group with 28% of cases and the third B positive group with 13%. Only 8% of respondents who know their blood group are negative Rhesus. Most of the respondents, about 91%, have information on transmitting HIV infection through blood, but a relatively low percentage of people, have information that serious infections can be transmitted, infections such as HBV (35%), HCV (26%) or syphilis (28%). Most of the respondents, respectively 65%, suggest that a person may be infected through blood transfusion. This indicates that they have lack of information on pre-existing blood control, whether by family or voluntary donation. Mostly the blood is checked at the National Blood Transfusion Center, in Tirana. As for the question of the frequency of blood donations, 90% refer to donations every 3-6 months. A male donates maximum 4 times a year (every three months) and a female donates maximum 3 times a year every 4 months).

Tab <u>le</u> , No. 3. Knowledge of blood donation						ted: Font: 10	p
7. Who should donate blood?	%	8. Who should not donate blood?	%				Ì
Men	50%	Men	0%				
Women	51%	Women	0%				
Young	51	Young(<18 years)	26%				
(<18 years)	1%	Old (>60 years)	22%				
Old (>60 years)	0%	Healthy	0%				
Healthy	81%	Diseased	96%				
Diseased	0%	Religious belief	1%				

9. What volume of blood is collected during each donation?	%	10. What is the duration of a donation process?	%
<400 ml	91%	<20 minutes	92%
500-100 ml	2%	20-60 minutes	5%
Don't know	7%	Don't know	3%

Table No. 3 p. Presents the data on the knowledge of the respondents about the blood donation process. These data indicate that 81% of respondents think that healthy people are the most suitable for blood donation. 51% refer that blood donors may be even younger than 18 years old. In our country, blood donation is not allowed under the age of 18, but there are countries around the world where the law allows the donation from 16 to 65 years old. 91% of the respondents said that the amount donated is <400ml, while 7% do not know. 92% refer that the donation process takes less than 20 minutes.

Table. No. 4. Attitude towards blood donation				
11. What do you think about blood donation?	%	12. What do you think is the best source of donor blood?	%	
Good	94%	Voluntary donor	94%	
Bad	2%	Replacement donor	20%	
Neutral	4%	Remunerated donor	2%	
		Self-donor	0%	
13. Can something happen to a blood donor during or after donation?	%			
YES	62%	14. What can happen to a blood donor during or after donation?	%	
NO	26%	Contract infection	19%	
No response=3	12%	Temporary weakness	60%	
		Fall sick	5%	
15. Should patient relatives be asked to donate?	%	Don't know	19%	
YES	94%			
NO	6%			

Table No.-4_p. Presents the data on attitudes that respondents have about the blood donation process. Most of the respondents have expressed that they have a positive attitude towards blood donation and 94% said that voluntary donation is the best donation, followed by family donation with 20%. Regarding to the question no. 13, 62% of the respondents suggest that donation may have side effects, mainly temporary fatigue that is possible in

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some people after donation. We emphasize that 19% of the people, refer to the possibility of infection, and 5% refer to the possibility to fall sick, a fact that is not true because the donors are tested in advance, and only if they meet the health conditions they may be donors.

Table . No. 5. Practice of blood donation					
16. Have you donated before?	%	18. Why did you donate?	%		
YES	70%	A friend or relative needed blood	9%		
NO	30%	Voluntary	95%		
		Remuneration	0%		
17. How often do you donate?	%	To know my screening status	10%		
<1 time a year	69%				
1-3 times a year	28%	20. Reasons for no donation by non- donors	%		
>3 times a year	3%	Not approached to donate	0%		
		Unfit to donate	10%		
19. Will you donate if call ore reminded to do so?	led upon	 Need to donate for friends or relatives in future 	0%		
YES	95%	Fear of needles	3%		
NO	2%	Fear of knowing my status	0%		
Don't know	3%				
		22. Which is the best source for informatic related to voluntary blood donation?	on %		
21. Do you encourage relatives to donate?	%	School	87%		
YES	93%	TV	27%		
NO	7%	Social sources	23%		
		Red CROSS	68%		
		Relatives	1%		
		Other sources	3%		

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Table No. 5 p. Presents the data on the practices of respondents about the blood donation process. 70% of respondents referred to have donated blood before, a fact which indicates that the donation has left a positive impact on these people. 95% of people affirm to have donated blood voluntarily and are willing to donate again if they are asked for it. The reasons for no donation by non-donors are unfit to donate related to health problems such as anemia, low blood tension, various diseases, 10% and 3% refer that they are afraid of needles. A positive behavior is the encouragement that donors make to their family to donate blood, where 93% refer to a positive attitude. The main

source of information is the school with 87%, Red Cross with 68%, TV and social networks with 27% and 23%.

CONCLUSIONS

Voluntary and free blood donation is a good opportunity for the continent health testing of the individuals but the most important, is saving and contributing to the lives in need. The Albanian Red Cross, Shkodra branch provides about four hundred units of blood to fulfill the needs of individuals suffering with thalassemia. The majority of people who have been offered for blood donation are those with a bachelor education, including the average age 23 years old which perfectly fits with most active and healthy age. Most of the donors have expressed a positive feedback about the blood donation process, they are always ready for a next, also ready to invite and encourage others to join in. The majority of the respondents emphasize that voluntary and free blood donation is the best and safest source of providing blood. This source of blood collection is well-known all around the world because the provided blood is safe since many tests take place before and also the individuals are free to complete the questionnaire. Most of the respondents express their fear of getting infected by blood transfusion, this happens when there is a lack of information about the blood test in advance. There is a lack of information even about how infections are transmitted through our blood such is HBV, HCV, Syphilis. The main source of information is school and the Albanian Red Cross. This indication must encourage us to share information across social networks, TV, etc.

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