

Voluntary Blood Donation Knowledge, Attitudes, and Practices in Central Ethiopia

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Background: Increasing the availability of safe blood is a major challenge in developing countries. Given the scant amount of community-based data in Africa, this study examines the knowledge, attitudes, and practices of blood donation of Ethiopian adults.

Methods: A cross-sectional study was conducted on 421 adult residents of Adama town using face-to-face interviews with translated questionnaires. Knowledge and attitude levels were assessed using a set of questions and those who answered above mean for knowledge and attitude questions were categorized as above-average knowledge level and favorable attitude, respectively. The data were coded and entered into EPI Info™ version 7, transferred to SPSS version 25 for cleaning and analysis. All variables with $p < 0.25$ in the bivariable analysis were examined as candidate variables in the multivariable logistic regression models.

Results: Less than half, 47% (95% CI: 42–52%) of the study participants have above-average knowledge level about blood donation and 48% (95% CI: 43–53%) have favorable attitudes towards blood donation. Only 17% (95% CI: 13–21%) of study participants ever donated blood of which 14.6% of them donated for replacement and less than 2% (1.95%) are voluntary donors. Younger age of 18–25 AOR: 95% CI: 3.40 (1.30, 12.43), having good knowledge AOR: 95% CI: 2.21 (1.26, 3.89) and favorable attitude AOR: 95% CI: 10.25 (4.90, 21.44) were factors independently associated with blood donation practice.

Conclusion: The level of blood donation practiced in the study area is low. Low knowledge and poor attitudes are independent predictors of low inclination to donate, so awareness creation and improving attitudes in blood donation campaigns, particularly among older people is necessary to increase voluntary blood donation.

Keywords: blood donation, voluntary, knowledge, attitude, practice, health services, Africa, epidemiology

Introduction

Blood donation is a gift of life that improves health and reduces premature mortality but many patients in need of blood transfusion do not have timely access to safe blood. An adequate and sustainable supply of safe blood can be assured by non-remunerated voluntary and unpaid blood donors as the rate of transfusion transmissible infection is lowest among them. However, in developing countries, there is a great challenge of availing safe and adequate blood.^{1,2}

Globally, around 112.5 million units of donated blood are collected every year. Nearly half of these are collected in high-income countries and the average blood donation rate is more than 9 times greater in high-income countries than in low-income countries. Particularly, Sub-Saharan Africa faces great challenges not only in the shortage of blood but also in the safety of blood.^{3,4}

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The World Health Organization (WHO) urged all countries to obtain their blood supplies from voluntary, non-remunerated donors by the year 2020. However, 40 countries in Africa have donation rates of less than the WHO threshold level of 1% which is required to meet the most basic blood requirements. Many countries in Sub-Saharan Africa, still unable to meet the minimum need for blood transfusions from all sources combined.⁴⁻⁷

According to a report from the Ethiopian Ministry of Health, Ethiopia collected 223,000 units of blood in 2019/20, meeting only 22% of its need as per the standard of the World Health Organization. Studies conducted in different parts of Ethiopia have reported lifetime blood donation rates ranging from 18.4% to 26.4% among the general public and relatively higher rate among students and healthcare professionals ranging from 23.6% to 32.6% although the majority of the studies showed high levels of knowledge and favorable attitudes.⁸⁻¹² Studies from the Middle East and South Asia have reported much higher lifetime blood donation levels ranging from 43.4% to 61.2% and very high knowledge and attitude levels.¹³⁻¹⁷

Lack of information and understanding about the need and process of blood donation, inadequate knowledge regarding the benefit of blood donation, misconceptions and perceived negative health effects caused by donation, and negative attitudes are the most frequently revealed reasons that discourage individuals from donating blood.^{17,18} Therefore, improving the level of knowledge and attitude towards blood donation in the community is essential to ensure safe and adequate blood supply.^{19,20}

Limited studies have described the level of knowledge, attitude, and practice of voluntary blood donation in developing countries and Ethiopia, even those few studies were conducted among students and healthcare professionals using only quantitative methods.^{11,21-23} No study is available in our setting and this study tried to fill the knowledge gap by conducting the survey in a community setting and also supplementing the finding with some open-ended questions so as to understand community perception about blood donation.

Therefore, the aim of this study is to explore the knowledge, attitudes and practice towards voluntary blood donation and associated factors among adults in Adama town. The finding of the study will be used as a baseline to evaluate the effectiveness of an intervention we are planning to implement which will reduce misconceptions and misunderstanding, improve knowledge, and enable people to donate blood voluntarily and regularly.

Materials and Methods

Study Area and Period

The study was conducted in Adama town, Oromia regional state, central Ethiopia, 99-km Southeast of the national capital, Addis Ababa. According to the Ethiopian central statistics agency, 2017 projected total population of Adama town is 355,475 of which 174,089 are males and 181,386 are females.²⁴ The town is organized into six sub-cities and 18 kebeles (lowest administrative unit in Ethiopia). The study was conducted from May to June 2019.

Study Design and Population

Community-based cross-sectional study design was used. All adults aged 18 to 65 years residing in the town for at least 6 months were the source population.

Exclusion Criteria

Study participants who had a serious illness and unable to communicate during the data collection period were excluded from the study.

Sample Size

The sample size was determined using Epi Info 7™ StatCalc²⁵ functions for population survey taking the prevalence of favorable attitude (52.5%) for blood donation from a previous study¹⁹ which gave the largest sample size. Using 95% CI and a 5% margin of error and considering a 10% non-response rate, the sample size was found to be 421.

Sampling Technique and Procedures

The multistage sampling technique was used with sub-cities as primary sampling units (PSU) and kebeles (the lowest administrative unit in Ethiopia) within selected sub-cities as the secondary sampling units (SSU). From the six sub-cities of the town, three sub-cities (namely Dabe, Aba Geda and Denbela) were selected by simple random sampling techniques using lottery method and two kebeles from each of the selected sub-cities were selected randomly. Households were selected proportionally from the selected kebeles using a systematic sampling technique. The sampling interval (K) value was calculated for each selected kebele dividing the total households of kebele to their corresponding proportional sample size calculated for each kebele (Figure 1).

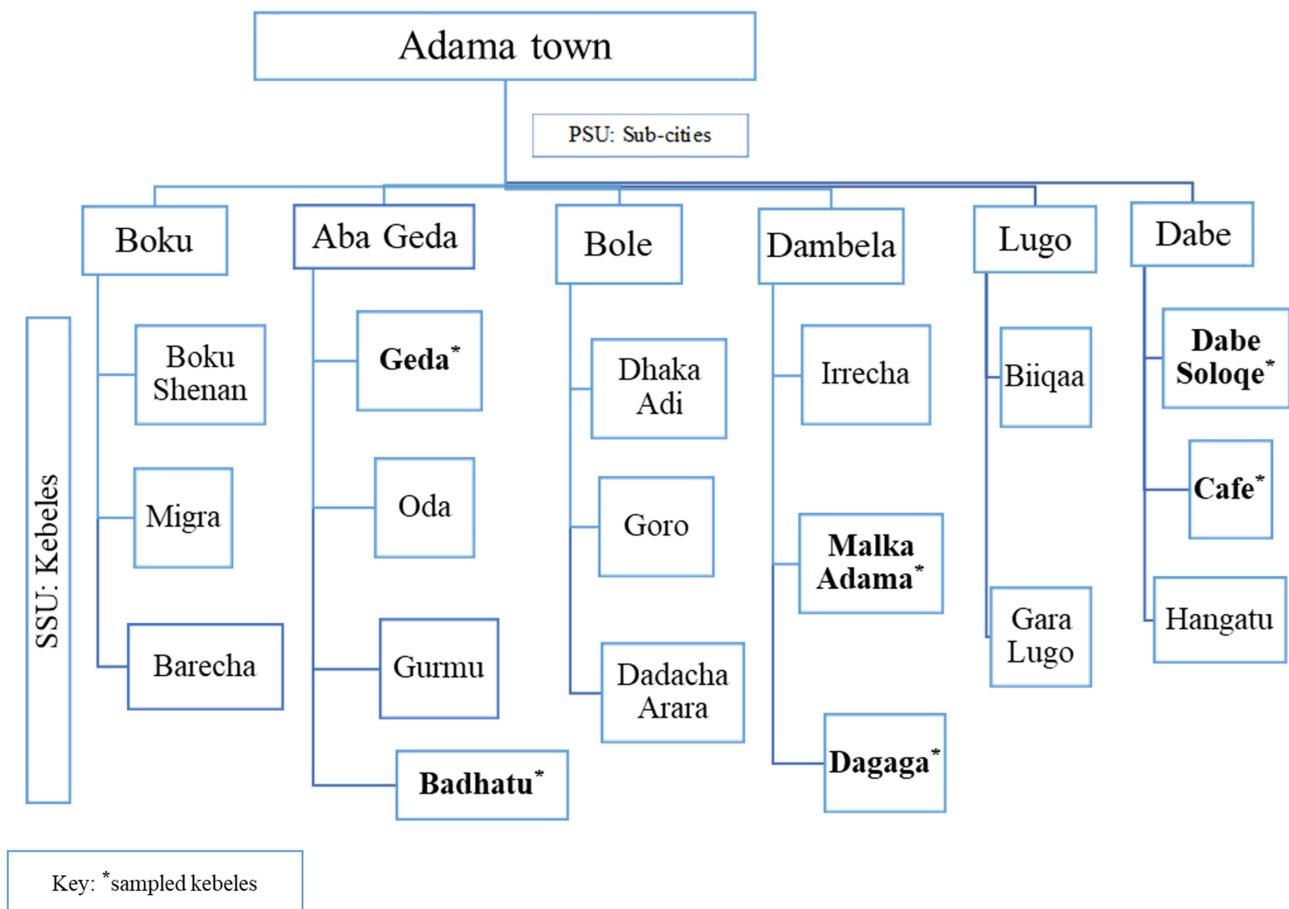


Figure 1 Sampling procedures for study on voluntary blood donation knowledge, attitudes, and practices in Central Ethiopia.

Data Collection Techniques and Procedures

Data were collected by face-to-face interviews using a structured and semi-structured pre-tested questionnaire developed after an extensive review of related literature.^{8,10,11,14,21–23,26–29} The questionnaire was first prepared in English and translated to Amharic, then translated back to English by another person to check for its consistency. The questionnaire had four sections comprising: socio-demographic factors, eight knowledge questions, six attitude questions, and five practice questions. Additionally, open-ended questions were also used to understand the perceptions and feelings of the study participants about blood donation. Three diploma nurses and two Public health professionals were recruited and trained as data collectors and supervisors, respectively.

Donation is considered voluntary and non-remunerated if the person gives blood with his/her own free will and receives no payment for it, either in cash or kind which could be considered a substitute for money. Replacement

donation is when it is required for a member of a family or when someone donates blood with an intention to replace the blood their family member has received. In order to measure knowledge level, multiple questions were used which includes minimum criteria for donating blood, possible health benefit and risk of blood donation, number of patients benefiting from a single unit of donated blood, the volume of blood collected in single donation, minimum interval of blood donation, best source of blood donors. Those who scored mean and above for knowledge questions were categorized as having above-average knowledge level, otherwise poor knowledge level.¹² The attitude was measured using six questions regarding the general perception about blood donation, intention and willingness to donate blood in the future. The result was dichotomized based on mean score, those who scored above mean for attitude questions were labeled as having a favorable attitude, otherwise unfavorable attitude.¹⁹ Those who donated blood at least once in their lifetime were labeled as practicing blood donation.¹¹

Data Management and Analysis

The training was given for the data collectors and supervisors, all completed questionnaires were reviewed and cross-checked for completeness and consistency by the supervisors and all the necessary feedback was given to the data collectors immediately. Data documentation sheet was prepared and used to make data entry form in Epi Info 7 and additionally, the check commands were applied in order to restrict out of range and illegal values. After data were coded and entered into EPI Info™ version 7, then transferred to Statistical Package for Social Science (SPSS) version 25 for cleaning and analysis. Frequencies and percentages for categorical variables and means and standard deviations for numerical variables were computed and results were presented using tables and narratives. Correlation between knowledge score, attitude score and practice score were done. Binary logistic regression analysis was used to examine the association between the independent variables and the dependent variable. All variables with p-value <0.25 in the bivariable analysis were entered into the final multiple logistic regression model to identify variables independently associated with blood donation. Multivariable logistic regression (backward stepwise likelihood ratio method) was conducted to select factors independently associated with blood donation. The significance of the adjusted Odds Ratio (AOR) was declared at p-value <0.05 and confidence intervals.

Results

Socio-Demographic Characteristic of Respondents

From the total sample size of 421 approached, 410 of them accepted to participate in the study, making a response rate of 97.4%. The minimum and maximum age of respondents were 18 years and 59 years, mean \pm standard deviation (SD) of the age of respondents were (31.92 \pm 8.17). The majority (41%) of respondents were in the age group of 26–35 years. Among the study participants, 50.5% of them were males and the remaining 49.5% of them were females. More than seven in 10 (71.7%) of respondents were married and more than third (37.6%) of study participants were followers of orthodox religion. Regarding the educational status majority (37.3%) of them attained secondary education followed by those who have a diploma or above (29.3%) (Table 1).

Level of Knowledge About Blood Donation

All the study participants know to be in good general health as minimum criteria for blood donation. However, only two-third of them knew the weight and age limit criteria for donating blood. Understanding about the health benefits of donating blood is very limited as only 6.8% of the study participants knew the availability of free medical checkup just by donating blood. Only 10% of the study participants knew the possibility of donating blood every 3 months. More than half (53.2%) of the study participants perceive replacement donation as the best source of blood and only 16.1% knew voluntary blood donation as the best source of blood. Generally, less than half, 47% (95% CI: 42–52%) of the study participants have above-average knowledge levels about blood donation (Table 2). There is no statistically

Table 1 Sociodemographic Characteristics of Respondents for Study on Voluntary Blood Donation Knowledge, Attitudes, and Practices in Central Ethiopia, 2019 (n = 410)

Variables	Categories	Frequency	Percent
Age group	18–25	100	24.4
	26–35	168	41.0
	36–45	119	29.0
	>45	23	5.6
Sex of respondents	Male	207	50.5
	Female	203	49.5
Marital status of respondents	Single	78	19.0
	Married	294	71.7
	Widowed	26	6.3
	Divorced	12	2.9
Religion of respondents	Orthodox	154	37.6
	Muslim	121	29.5
	Protestant	68	16.6
	Catholic	67	16.3
Educational status of respondents	No formal education	26	6.3
	Primary education	111	27.1
	Secondary education	153	37.3
	Diploma and above	120	29.3
Occupational status of respondents	Gov't Employee	163	39.8
	Self-employed	183	44.6
	Housewife	33	8.0
	Farmer	10	2.4
	Student	21	5.1

significant correlation between the knowledge score and age of the respondents ($r = 0.019$, $p = 0.704$).

The Attitude of Respondents About Blood Donation

Nearly half (48.5%) of the study participants perceive blood donation as a good idea and 45.9% of them think as neutral and only 5.6% of the participants think of blood donation as a bad thing to do. Two-thirds (66.1%) of the study participants think people should donate blood for their relatives or

someone close to them, only 21.5% think people should donate blood for anyone in need. Only two-fifth (39.8%) of the study participants are willing to donate blood in the future. However, four in five (79.8%) % of them intended to donate for their relatives whenever needed and only 28 (17.2%) of them intended to donate voluntarily. Less than half, 48% (95% CI: 43–53%) of the study participants have a favorable attitude towards blood donation (Table 3).

There is a weak but statistically significant correlation between knowledge and attitude scores of the study participants ($r = 0.116$, $p = 0.019$). However, there is no statistically significant correlation between attitude score and age of the respondents ($r = -0.056$, $p = 0.262$).

Table 2 Blood Donation Knowledge Levels Among Ethiopian Adults, 2019 (n = 410)

Variables	Response Choice	Percent (95% CI)	Frequency
Minimum criteria for donating blood	Age 18–65	66.6 (61.8–70.9)	273
	Weight >45 kg	65.1 (60.4–69.5)	267
	Good health	100 (99–100)	410
Health benefits of blood donation	Free medical checkup	6.8 (4.8–9.6)	28
	Happiness	45.9 (41.1–50.6)	188
	Control weight	43.9 (39.2–48.7)	180
	Lower cancer risk	8.8 (6.4–11.9)	36
	Reduce heart attack	23.7 (19.8–28.0)	97
Number of patients benefiting from a unit of blood	Single unit blood may benefit up to three patients	9.5 (7.0–12.7)	39
The volume of blood donated	<500mL of blood is collected in each donation	24.9 (20.9–29.2)	102
Interval of blood donation	Possible to donate blood every three months	10 (7.4–13.2)	41
Best Source of donor blood	Replacement donors	53.2 (48.3–57.9)	218
	Paid donors	21.5 (17.8–25.7)	88
	Voluntary donors	16.1 (12.9–19.9)	66
	Do not know	9.3 (6.8–12.4)	38
Possible risk of blood donation	Anemia	83.9 (80.0–87.1)	344
	Infection	65.6 (60.9–70.0)	269
	Fainting	22 (18.2–26.2)	90
	Death	8 (5.8–11.0)	33
Level of Knowledge	Poor knowledge	52.9 (48.1–57.7)	217
	Above-average knowledge	47.1 (42.3–51.9)	193

The Practice of Blood Donation

Only 70 of the study participants (17.1%: 95% CI: 13–21%) ever donated blood in their lifetime, from which 14.6% of them donated as a replacement for blood their relatives received. Among seven whoever donated blood, six (85.7%) of them donated for replacement for the blood their family member or someone close to them

Table 3 Blood Donation Attitude Levels Among Ethiopian Adults, 2019 (n = 410)

Variables	Response Choice	Percent (95% CI)	Frequency
The general perception of blood donation	Bad idea	5.6 (3.8–8.2)	23
	No real opinion	45.9 (41.1–50.6)	188
	Good idea	48.5 (43.8–53.3)	199
For whom should people donate their blood	No one	5.4 (3.6–7.9)	22
	Paid	7.1 (4.9–9.9)	29
	Relatives	66.1 (61.4–70.5)	271
	Anyone in need	21.5 (17.8–25.6)	88
Your donation will encourage others to donate	Disagree	51.0 (46.1–55.7)	209
	Agree	49.0 (44.2–53.8)	201
Willingness to donate blood in the future	No	60.2 (55.4–64.8)	247
	Yes	39.8 (35.1–44.5)	163
Type of donation intended (n=163)	Replacement	79.8 (72.9–85.2)	130
	Voluntary	17.2 (12.2–23.7)	28
	Paid	3.1 (1.3–6.9)	5
Level of attitude	Unfavorable attitude	52.0 (47.1–56.7)	213
	Favorable attitude	48.0 (43.2–52.8)	197

received previously and less than 2% (1.95%) of study participants or 11.5% of those who ever donated blood, donated their blood voluntarily to be used by anyone in need. The common reasons mentioned for not donating blood includes no one asked for, inaccessibility of the service, fear of pain, fear of anemia, fear the sight of blood (Table 4). There is positive statistically significant correlation between attitude and practice score ($r=0.331$, $p=0.000$), knowledge and practice scores of the study participants ($r=0.225$, $p=0.000$).

Factors Associated with the Practice of Blood Donation

Variables with p -value <0.25 in bivariable analysis were selected and entered into the final multiple logistic regression model to identify variables independently associated with blood donation practice.

In multivariable analysis using multiple logistic regression, a young age, having good knowledge and favorable attitude were found to be independently and significantly

associated with blood donation practice. After controlling for other independent factors, the study participants who are the younger age group of 18–25 years were more than three times likely to donate blood as compared to those older ages of more than 45 years (AOR: 3.40; 95% CI: 1.30, 12.43).

Controlling other independent factors study participants who have above-average knowledge level about blood donation were more than two times more likely to donate blood as compared to those having poor knowledge (AOR: 2.21; 95% CI: 1.26, 3.89).

Having a favorable attitude was found to be significantly associated with blood donation practice. Those who have favorable attitudes were more than 10 times more likely to donate blood compared to those having unfavorable attitudes (AOR: 10.25; 95% CI: 4.90, 21.44) (Table 5).

There is a diversity of opinions regarding blood donation. Some of the study participants were in favor of blood donation describing how valuable blood is in saving lives, especially during emergency situations. However, other respondents had expressed great misunderstandings about blood donations (eg, need for donors and recipients to have blood relationships, beliefs of having “not enough” blood for oneself, suspicions of a black market) that made them disinclined to donate blood.

Discussion

This study analyzed the level of knowledge, attitude, the practice of blood donation and associated factors at the community level. The finding of the study revealed less than half of the study participants have above-average knowledge level about blood donation, which was consistent with other related community-based studies conducted in Harar town, Eastern Ethiopia where 43.55% of the study participants had good knowledge level about voluntary blood donation.⁸ However, the result was lower than the study conducted in Aman sub-city, Southwest Ethiopia and Riyadh city, Saudi Arabia where 76% and 78% of respondents had good knowledge about blood donation, respectively. The possible explanation for the discrepancy might be due to the difference in measurement of knowledge level and the difference in the study setting.^{9,15}

Knowledge of study participants on the health benefits of donating blood is very limited, most of them think blood donation benefits only the patient who receives the blood. Only 6.8% of them know they will have free medical checkups, 8.8% knew they will

Table 4 Blood Donation Practice Among Ethiopian Adults, 2019 (n = 410)

Variables	Response Choice	Percent (95% CI)	Frequency
Ever donated blood	Yes	17.1 (13.7–21.0)	70
	No	82.9 (78.9–86.2)	340
Type of blood donation practiced (n=70)	Replacement	85.7 (75.7–92.0)	60
	Voluntary	11.5 (5.9–20.9)	8
	Paid	2.8 (0.7–9.8)	2
Frequency of donation	Never donated	82.9 (78.9–86.2)	340
	Once	11.5 (8.7–14.9)	47
	Twice or more	5.6 (3.8–8.2)	23
Reasons for not donating blood	Did not think of it	33.7 (29.3–38.3)	138
	No one asked for	43.2 (38.4–48.0)	177
	Fear of pain	40 (35.4–44.8)	164
	Fear of anemia	41.2 (36.6–46.0)	169
	Fear of weight loss	35.6 (31.1–40.3)	146
	Fear of sight of blood	43.9 (39.2–48.7)	180
	Not accessible	44.4 (39.7–49.2)	182
	Objection from family members	43.2 (38.5–48.0)	177
	No reason	37.3 (32.8–42.0)	153

Table 5 Factors Associated with the Practice of Blood Donation in Adama Town, 2019

Variables	Percent Ever Donated	COR (95% CI)	AOR (95% CI)	P-value
Age Category				
18–25	21.4	3.75 (1.04, 13.49)	3.40 (1.30, 12.43) **	0.014
26–35	45.7	1.57 (0.44, 5.6)	1.36 (0.20, 1.93)	0.417
36–45	24.3	1.11 (0.3, 4.15)	0.49 (0.15, 1.28)	0.231
>45	8.6	1	1	1
Sex of Respondents				
Male	54.3	1.20 (0.72, 2.01)	1.21 (0.68, 2.14)	0.517
Female	45.7	1	1	1
Religion of Respondents				
Orthodox	32.9	1.00 (0.45, 2.24)	1.12 (0.47, 2.65)	0.796
Muslim	35.7	1.48 (0.67, 3.31)	1.85 (0.78, 4.43)	0.165
Protestant	17.1	1.22 (0.49, 3.05)	1.41 (0.52, 3.81)	0.501
Catholic	14.3	1	1	1
Educational Status				
No formal education	7.1	1.27 (0.42, 3.77)	1.45 (0.42, 5.05)	0.559
Primary education	34.3	1.47 (0.75, 2.86)	1.29 (0.62, 2.71)	0.491
Secondary education	31.4	0.89 (0.46, 1.74)	0.86 (0.41, 1.81)	0.687
Diploma and above	27.1	1	1	1
Level of Knowledge				
Poor Knowledge	37.1	1	1	
Good Knowledge	62.9	2.17 (1.28, 3.69)	2.21 (1.26, 3.89) **	0.006
Level of Attitude				
Unfavorable attitude	12.9	1	1	
Favorable attitude	87.1	10.17 (4.89, 21.15)	10.25 (4.90, 21.44) **	0.000

Note: **Significant at p value <0.05.

reduce their risk of cancer and 23.7% knew their risk of experiencing a heart attack is reduced as a result of their blood donation. Educating potential donors about health benefits of donating blood, the volume of blood donated and the number of patients benefiting from a single unit of blood donated is very important to improve knowledge about blood donation and hence increase voluntary blood donation.^{30–32}

In this study, less than half (48%) of the study participants have a favorable attitude towards blood donation, as two-third of participants thought they are expected to donate blood only for their relatives. This finding is consistent with the study conducted in Ambo town, Ethiopia where 47.4% of study participants have a positive attitude for blood donation,¹² but higher than the study conducted in Harar, Eastern Ethiopia where 32.9% of participants have a positive attitude towards voluntary blood donation.⁸ The possible explanation for the discrepancy might be due to the difference in the time period in which the study was conducted.

Finding of this study revealed only 17.1% of study participants ever donated blood in their lifetime, which is consistent to the study conducted in Gondar town, Northern Ethiopia and lower than the study conducted in Aman sub-city, West Ethiopia.^{9,10} However, the rate of voluntary donation is very low as the majority of them donated for replacement purposes, which have its' own risk. Even though replacing blood in order to get blood from blood bank is not required in our setting, most of the time peoples are donating with the intention to replace blood given for their loved ones. However, the public should be encouraged to donate blood voluntarily and regularly so as to get safe and reliable blood.

Common reasons reported for not donating blood includes no one asked for, not accessible, fear of pain, fear of anemia, fear of weight loss and the fear sight of blood, which is consistent with the study conducted in Eastern Ethiopia, India and Saudi.^{8,13,16,33} This indicated most reasons peoples fail to donate blood are just misconceptions that could be cleared with appropriate health

information and campaign in approaching those potential blood donors. Had blood donation service been more accessible, and appropriate methods used to approach potential donors, the rate of blood donation would have been improved. Health system and health care providers should act on making blood bank service more accessible and should approach potential donors so as to increase the rate of voluntary blood donation.

In this study, from the sociodemographic factors being the young age group of 18–25 years was significantly associated with blood donation practice. This indicated targeting our intervention to older adults would increase the rate of blood donation practice and generate a future pool of regular donors. Furthermore, using younger adults as an advocate for blood donation campaign and engaging them in awareness creation and risk reduction intervention in the community would improve voluntary blood donation.

In multivariable analysis using multiple logistic regression good knowledge and favorable attitude were found to be independently and significantly associated with blood donation practice. This is consistent with comparable studies conducted so far. Our intervention to increase blood donation practice should focus on clearing misconceptions and irrational fear, hence improving the knowledge level of adults and also increasing accessibility of blood bank service and approaching potential donors is essential.

As limitations of the study, the response of the participants might be influenced by social desirability bias, which refers to the tendency of study participants to give socially desirable responses instead of indicating answers that are reflective of their true practice. Respondents who were not donating blood may falsely report they have donated blood as blood donation is socially desired behavior.

Conclusions

The level of knowledge, attitude, and practice of voluntary blood donation are low in the study setting. Knowledge and attitude levels are an independent and significant predictors of blood donation. In order to improve the knowledge and attitude of blood donation comprehensive health information is needed on eligibility criteria for donating blood, health benefits and risks of donating blood, volume of blood donated, number of patients benefiting from single unit of blood donated and importance of blood in saving lives, improving health and wellbeing of the community.

Since most reasons people fail to donate blood are inaccessibility of the service, unreasonable fear and misunderstanding, government and related stakeholders aiming to improve health services should make blood bank service more accessible, health care providers should clear misconceptions with appropriate health information and organizing a well-planned campaign in approaching the potential blood donors.

Abbreviations

AOR, adjusted odds ratio; CI, confidence interval; COR, crude odds ratio; IRB, Institutional Review Board; KAP, knowledge, attitude and practice; PSU, primary sampling unit; SD, standard deviation; SPSS, Statistical Package for Social Science; SSU, secondary sampling unit; WHO, World Health Organization.

Ethical Approval and Consent to Participate

Ethical approval and support letter were obtained from the Institutional Review Board (IRB) of Wolkite University (Ref. No: RCSUIL/110/018) and the Adama town health office before the data collection process started. Verbal informed consent from participants was acceptable and approved by the IRB of Wolkite University and Adama town health office. All the study participants were informed about the aim and purpose of the study, the importance of their participation and verbal informed consent was obtained. Also, the study subjects were informed their right to skip questions or questions that they don't want to answer partly or fully and to stop the interviewing process at any time if they want to do so and withdraw from the study.

Consent for Publication

Not applicable

Data Sharing Statement

The datasets used and/or analyzed during the current study are available from the corresponding author on reasonable request.

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Disclosure

The author reports no conflicts of interest in this work.

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