

Community-Based Health Insurance Membership Dropout Rate and Associated Factors in Dera District, Northwest Ethiopia

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Background: Community-based health insurance is an emerging strategy for providing financial protection against health-related poverty. They have developed into alternative health financing mechanisms for out-of-pocket expenses in low- and middle-income countries. Hence, the aim of this study was to assess the drop-out rate of community-based health insurance membership and associated factors in Dera district, Northwest Ethiopia, 2020.

Methods: Through systematic random sampling techniques, a community-based cross-sectional study was conducted on 584 participants. A structured interviewer-based administered questionnaire was used for data collection. Epi data is used for data entry, while SPSS 20 version is used for analysis. P-value <0.2 binary logistic regression was entered into multivariable logistic regression. Variables with a P-value of <0.05 and a 95% confidence level were considered to be significantly associated with the outcome variable.

Results: The CBHI dropout rate in the district is calculated to be 37.3% (95% CI: 34, 41%) in the district. Length of enrollment, ≥ 4 years in the CBHI program (AOR=0.39, 95% CI: 0.26, 0.59), households visit the health facilities 4–6 times a year (AOR=1.92, 95% CI: 1.10, 3.32), have no access to the hospital (AOR=1.68, 95% CI: 1.02, 2.77), knowledge of CBHI (AOR=1.93, 95% CI: 1.32, 2.82) and official position holder for decision-making in the households (AOR=2.07, 95% CI: 1.33, 3.23) were factors associated with CBHI dropout rate in the scheme.

Conclusion: This finding confirmed that the CBHI dropout rate in the district was high. Length of enrollment, health facility visit, hospital accessibility, knowledge of CBHI, and official position holders used for decision-making are significantly associated with the CBHI dropout rate. Therefore, emphasis should be given on improving members' understanding of the CBHI package of benefits; increasing access to hospitals and empowering women will increase the utilization of CBHI. In addition, the quality of care for CBHI patients can be improved when they had access to health services.

Keywords: community-based health insurance, dropout rate, Dera district, Northwest, Ethiopia

Background

The governments in lower- and middle-income countries (LMICs) have an increased effort to achieve universal health coverage (UHC) and to improve healthcare access, use, and financial protection by reducing direct out-of-pocket payments (OOP) for health care.^{1,2} Many low- and middle-income countries cannot meet the necessary healthcare needs of their citizens. These countries face challenges in raising sufficient funds.³ Due to limited economic resources and weak government institutions,⁴ it is difficult to achieve healthcare financing.

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Currently, global statistics show that the OOP of health care in low- and middle-income countries is very high. People in these countries are also affected by man-made and natural factors, which further increase medical expenses; this fact is true at the individual, family, and national levels.^{5,6} Because of these financially catastrophic problems, financing the healthcare system is a common agenda for all countries in the world.⁷ The report shows that the OOP health expenditure of high-income countries⁸ is 38.5%, and the OOP expenditure of Southeast Asian countries⁹ is 63% to 86%. Africa accounts for more than 40% of OOP.¹⁰ About 37% of the total healthcare expenditure in Ethiopia.¹¹

Community-based health insurance (CBHI) is seen as a promising new tool for improving the health systems of people in low- and middle-income countries, especially in rural areas of sub-Saharan Africa (SSA).¹² It improves cost recovery by reducing OOP healthcare spending.^{12–14} This event is a pledge agreement requiring the health insurer to cover health service costs for premium payments into a collective fund, a benefit designed, owned, controlled, and administered, which provides financial protection from the cost of seeking health care the prepayment of premiums and it is a not-for-profit.^{15,16}

The World Health Organization's (WHO) view on the CBHI program is that there is a fragile integration between public policy and organizational planning and action.¹³ Results indicate a high level of drop-out from the CBHI system, but it has not been analyzed in-depth, and this situation may be a sustainability problem of the CBHI scheme in many LMICs; this problem is also high in our country and region.^{17,18} Dropping out also hinders risk pooling and resource mobilization for effective plan management, and creates long-term sustainability issues.¹⁴ The Asian report showed that about 80% of the enrolled members dropped out of their CBHI memberships.¹⁹ In Africa, the dropout rate increases from 6.8% to 83%.^{12,14,17,20} Moreover, between 7.8% and 36% of CBHI members were dropped from membership in Ethiopia.^{15,21}

The lack of understanding of health insurance,²¹ experience with CBH scheme,²¹ knowledge of the CBHI scheme,²¹ accessibility of health facilities,¹² health-needs and health demand,¹² quality of care,^{12,17} household head and household characteristics,¹² long waiting time,^{12,22} premium not affordable,²² the inconvenient model of premium payment,²² female household head,¹² higher age of household head,¹² low educational status of household,¹² lower numbers of episodes in the last 3 months,¹² fewer children or

elderly in the household,¹² stringent rules of some CBHI scheme,²³ inadequate legal and policy frameworks to support CBHI,²³ inappropriate benefit package²³ were associated with CBHI dropout rate.

Ethiopia has approved and formulated the CBHI plan in 2010/2011,¹⁵ the benefit package of outpatient and inpatient services, laboratory, imaging services, the supply of drugs, and related services except for eyeglasses, dental implants, and dialysis with district fulfill the minimum standard of service in all government health facilities.²⁴ However, a 2016 report by the Ethiopian Health Insurance Agency showed that only 30% of the communities had joined the CBHI program when the pilot was launched.²⁵ A large number of health insurance plans cannot cover the entire population, and there are not enough good lessons from the experience of CBHI.^{14,26} Hence, this study assessed the dropout rate of community-based health insurance membership and associated factors in Dera district, Northwest Ethiopia, 2020.

Methods

Study Setting and Design

A qualitative community-based cross-sectional study was conducted in Dera from February 1 to March 30, 2020. The subjects of the survey were family members who had joined the CBHI program since 2018. The Dera district is 610 km from Addis Ababa, the capital of Ethiopia, 42 km from Bahir Dar, and 80 km from Debre Tabor. According to the region's 2019 annual report, the region has a total population of 303,571, of which men and women are 136,464 and 167,107, respectively. Amongst 70,598 households, the expected number of households participating in CBHI is 27,470 (39%). Currently, the area has 32 administrative Kebeles, 11 health centers, and 36 health posts.

Study and Source Population

All CBHI members who have enrolled in the Dera District and received CBHI program services since 2018 are the source population of this study.

Sample Size and Sampling Procedure

Sample estimation was calculated using the single population proportion formula by applying the following assumption: the previous dropout rate of CBHI was 36%²⁷ in Northwest Ethiopia with a marginal error of 5%, 95% level of confidence, and a design effect of 1.5. Finally,

a sample size of 584 was obtained by considering a 10% non-response rate. A multistage sampling technique followed by a systematic random sampling technique was employed to select the study participants. Seven Kebeles were selected by lottery methods, and then the sample size was allocated to each Kebeles by using a proportionate allocation from the total sample size.

Data Collection Tools and Techniques

A structured pretested questionnaire was used prepared by reviewing different pieces of literature.^{21,27-30} Data were collected through face-to-face interviews. The questionnaire was initially prepared in English, and it was translated into Amharic and then translated back to English to check for any inconsistencies or distortions in the meaning of words and concepts through language experts. Seven BSc health workers and two supervisors have taken part in data collection and supervision, respectively. A pretest was done before 2 weeks of the actual data collection among 30 samples, from the total sample size out of the study area on simplicity, understandability, completeness, consistency, and coherence, and necessary correction like changing some terms with locally used words was taken after the pretest was done. Two days of training were provided for data collectors and supervisors on how to approach, extract information, and understand the questionnaire and the fieldwork. Supervisors and principal investigators conduct close supervision once a day to check the integrity of the data. Daily feedback is also provided to the data collector.

Variable Measurements

Knowledge of CBHI was assessed by seven yes/no questions. The Yes response of the respondents was the correct response labeled as 1 and No was the wrong response labeled as 0. After summarizing, the result score of 50% or higher is regarded as good knowledge, and the result below 50% is regarded as poor knowledge of the CBHI program.²⁷ The wealth index was computed by using a principal component analysis (PCA) and by considering household assets. The classification range of these assets is 0–1. After classification, variables are input into PCA to generate factors, and then variables with commonality values greater than 0.5 are used to create factor scores. Finally, divide the summary value of factor scores into five quintiles.²⁷

Data Processing and Analysis

All returned questionnaire was checked for completeness and consistency of responses. The collected data were cleaned, coded, and entered EPI-data and it was exported to SPSS version 20 for analysis. Data were cleaned and analyzed using SPSS version 20. The dropout rates of the CBHI indicator are dichotomous variables, which were classified as 0 and 1, which do not meet the criteria and meeting the criteria, respectively. Descriptive statistics such as mean, median, frequency, and a number of variables were summarized by using frequency, tables, graphs, and texts. Carry out variable relationship diagnosis, such as goodness of fit test by Hosmer and Lemeshow test, multicollinearity, and sample adequacy test. The variables with p -value ≤ 0.2 in the Bivariate analysis were fitted to a multivariate logistic regression model to identify their association with the outcome variable. It is reported that a variable with a 95% CI of $P < 0.05$ can be used as a predictor of the CBHI dropout rate.

Ethical Consideration and Consent Statement

This study was conducted in accordance with the Declaration of Helsinki. Ethical clearance and permission were obtained from the Ethical Review Board of the institute of public health, College of Medicine and Health Sciences, University of Gondar (IRB) with ethical clearance letter Ref No/IPH/837/06/2020, and permission was secured from Dera district administration. Then, written informed consent was obtained from each head of the households before the interview, and the University of Gondar approved this. We asked for informed consent from the head of the household because the head of the households can decide any household-related issues including health demand and related costs like a renewal of CBHI membership. Confidentiality issues were insured by using codes to analyze the data. Respondents were briefly informed about the study and asked for their willingness to participate in the study. They had given the right to put an end to the question or segment of questions or refuse to participate at all.

Results

Socio-Demographic and Socio-Economic Status of the Respondents

A total of 584 participants participated in a response rate of 100%. The mean age of the respondents was 42 years old, $SD \pm 12$. Nearly all household respondents, 547 (93.7%) were males and 536 (91.8%) of the respondents

were married. Almost half, 291 (49.8%) of participants were unable to read and write. Most, 476 (81.5%) of the participants were rural by residence. Less than half, 275 (47.1) of the respondents were in the age range of 20–24 years old. Nearly all, 565 (96.7%) and 536 (91.8%) were Orthodox and married by religious and marital status, respectively. More than three-fourth, 500 (85.6%), of the study participants were farmers. More than 334 (57.2%) of the participants had less than five household family size. One quarter, 116 (19.9%) of the households were grouped in the poorest wealth status (Table 1).

Experience and Expectations of CBHI Members

More than half, 321 (55%), of respondents were enrolled in CBHI program for 1–3 years. Only 86 (14.7%) of participants were participating in CBHI related meetings and training. More than half 345 (59.1%) of participants were visiting healthcare facilities one to three times per year. Nearly all, 575 (98.5%) respondents have got and accessed health care from the nearby health centers. Only one-third of 214 (36.6%) participants were accessible to hospital services. Three-fourth, 456 (78.1%), of the respondents were not agreed on the covenant waiting to time in the health facilities. Only 326 (55.8%) of the CBHI members did not trust the contract agreement signed with the health facilities (Table 2).

Health Status and Health Care Seeking Behavior

Three-fourth of 439 (75.2%) participants were not having sick under-five children for the last 4 weeks and a half, 320 (54.8%), were not having sick adults the last 3 months in their households. Over one-third (40.9%) of the respondents were had poor knowledge about CBHI services. About its own self-rated health, 245 (42%) and 220 (37.7%) were perceived medium and good health self-rated, respectively. Three-fourth of 466 (79.8%) have participated in any solidarity group. Only, 209 (35.8%) of the participants were had ever participated in the local informal credit association. Two-thirds, 379 (64.9%), of household power are holding by the joint of both husband and wife (Table 3).

CBHI Dropout Rate

The CBHI dropout rate in the district is calculated to be 37.3% (95% CI: 34, 41%). In most cases, the dropout rate is due to lack of funds (80, 36.7%) or lack of trust in the CBHI program (79, 36.2%), as shown in (Figure 1).

Table 1 Socio-Economic and Demographic Characteristics of Respondents for CBHI Dropout Rate and Associated Factors at Dera District Northwest Ethiopia, 2020

Variables	Category	Total Frequency	
		Frequency	Percent
Residence of respondent	Rural	476	81.5
	Urban	108	18.5
Age of respondent in years	20–24	275	47.1
	25–49	259	44.3
	≥50	50	8.6
Sex of respondent	Male	547	93.7
	Female	37	6.3
Religion of respondent	Orthodox	565	96.7
	Muslim	19	3.3
Marital status of household head	Unmarried	48	8.2
	Married	536	91.8
Educational status of household head	Unable to read and write	291	49.8
	Able to read and write	167	28.6
	Primary (1–8)	111	19.0
	Secondary and above	15	2.5
Occupation of household head	Farmer	500	85.6
	Merchant	58	9.9
	Daily laborer	15	2.6
	Private organization	11	1.9
No. of household size	<5	334	57.2
	≥5	250	42.8
No. of under-five children in HH	None	271	46.4
	1–3	313	53.6
Age above 64 years in HH	None	536	92.1
	1–2	48	7.9
No. of pregnant women in HH	None	505	86.5
	≥1	79	13.5
Wealth status	Poorest	116	19.9
	Poor	117	20
	Medium	118	20.2
	Rich	118	20.2
	Richest	115	19.7

Factors Associated with CBHI Dropout Rate

For age, household size, length of enrollment in the CBHI scheme, number of health facility visits per year, hospital accessibility, knowledge of CBHI, self-rated health status,

Table 2 Experience and Expectation with CBHI for Dropout Rate and Associated Factors at Dera District Northwest Ethiopia 2020

Variables	Category	Total	
		Frequency	Percent
Length of enrolment in CBHI scheme	1–3 years	321	55
	≥4 years	263	45
Have you ever participated in CBHI-related meeting and training?	Yes	86	14.7
	No	498	85.3
From which type of health facility did you get health care?	H/center	575	98.5
	Hospital	9	1.5
During the recent health facility visit, did the sick family members receive drugs?	Yes	443	75.9
	No	141	24.1
During the recent health facility visit, did the sick family members receive laboratory services?	Yes	355	60.8
	No	229	39.2
How many times did you visit this health facility per year?	1–3	345	59.1
	4–6	163	27.9
	≥7	76	13
How far is your home to hospital in travel hours	1–2	50	8.6
	≥3	534	91.4
How far is your home to health center in travel hours	<1	576	98.6
	1–2	8	1.4
Is the hospital accessible to you?	Yes	108	18.5
	No	476	81.5
Is the health center accessible to you?	Yes	573	98.1
	No	11	1.9
Is the waiting time in health facility conveys?	Yes	128	21.9
	No	456	78.1
Have you trusted by the health professional in health facilities?	Yes	392	67.1
	No	192	32.9
Have you trusted by the contracted health facility?	Yes	326	55.8
	No	258	44.2

number of sick adults in the household in the last 3 months, participation in any solidarity group, and the decision-making status in the household, the binary logistic regressions yielded a p-value below 0.2. After adjusting the multivariable logistic regression model, only length of

Table 3 Health Status, Health Care Seeking Behavior, Participation in Informal Networking and Social Support Group for CBHI Dropout Rate Dera District Northwest Ethiopia 2020

Variables	Category	Total	
		Frequency	Percent
Was there chronic illness among the family members?	Yes	77	13.2
	No	507	86.8
How is your self-rated health status?	Very poor	31	5.3
	Poor	114	19.5
	Medium	196	33.6
	Good	167	28.6
	Very good	76	13.0
Were there sick under-five children in your HH in the last 4 weeks?	Yes	145	24.8
	No	439	75.2
Was there adult household member who fall ill in the last 3 months?	Yes	264	45.2
	No	320	54.8
Was the sick adult in your HH visit health facility?	Yes	259	98.1
	No	5	1.9
Have you ever participate in any solidarity group?	Yes	466	79.8
	No	118	20.2
Have you ever participate in any local informal credit association?	Yes	209	35.8
	No	375	64.2
Have you ever participate in any religious activity?	Yes	530	90.8
	No	54	9.2
Who is official position holder for decision rule among household members	Husband	169	28.9
	Wife	36	6.2
	Both	379	64.9

enrollment in the CBHI scheme, number of health facility visits per year, hospital accessibility, knowledge of CBHI, and the decision-making status in the household remained significant to the outcome variable.

The dropout rate among individuals that had participated in the CBHI scheme for more than 4 years was 61% lower than that among those enrolled for 1–3 years (AOR: 0.39, 95% CI: 0.26, 0.59). The odds of dropout rate among households that utilized health facilities 4–6 times a year were 1.92 times greater compared to those that required 1–3 visits (AOR: 1.92, 95% CI= 1.10, 3.32). In addition, the analysis showed that people without hospital access were 1.68 times more likely to give up the CBHI program than those with hospital access (AOR: 1.68, 95% CI: 1.02, 2.77). Correspondingly, individuals

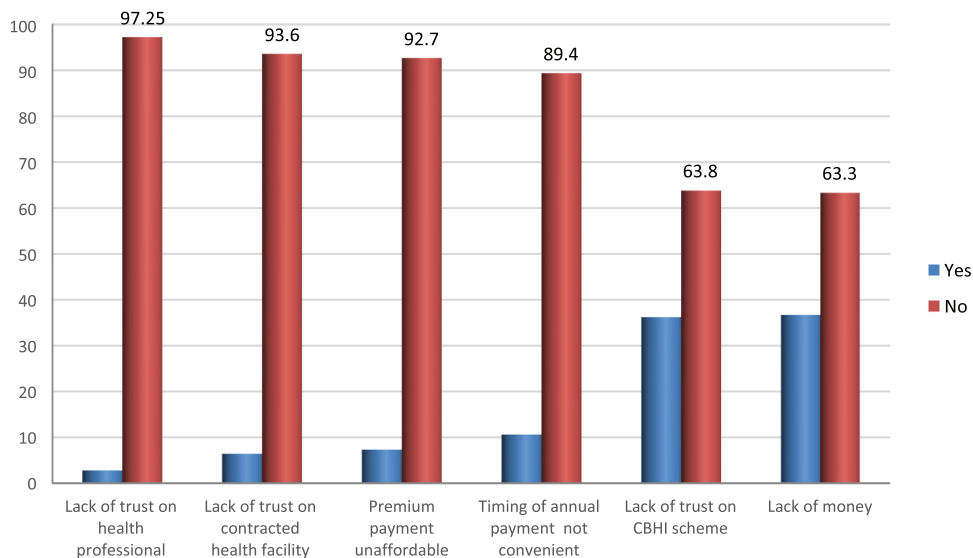


Figure 1 Reasons for CBHI dropout rate and associated factors at Dera district Northwest Ethiopia 2020.

who had poor knowledge about CBHI were 1.93 times more likely to abandon their CBHI scheme than those who had no information about the program (AOR: 1.93, 95% CI= 1.32, 2.82). Finally, households in which the husband was a decision-maker were 2.07 times more likely to abandon their CBHI scheme than those where decisions were made by the wife (AOR: 2.07, 95% CI= 1.33, 3.23), as shown in Table 4.

Discussion

The aim of the current study was to identify the reasons behind CBHI dropout rate in the district. Analyses revealed that 37.3% of the community-based health insurance members have abandoned the program, which is in line with the percentages reported for Ghana (34.8%)¹⁴ and Ethiopian (36%).²⁷ However, much higher dropout rates were reported in India (45.7–80%),³² Burkina Faso (45.7%),¹² Senegal (58–83%),¹⁷ and Kenya (59.8%),² possibly due to the differences in study setting, design, and the socio-demographic characteristics of study participants. The authors of the aforementioned studies recommended reducing the knowledge gap in the community via information dissemination on the CBHI benefit package, which should be a responsibility of health professionals as well as government officials. Still, it is worth noting that lower dropout rates were reported for Nigeria (31.7%),^{2,19} and Ethiopia 18%²¹ possibly due to better financial position of the participants in these studies, which would allow them to cover the annual premium payment for membership renewal.² In addition,

lack of trust in the CBHI scheme and low expectations of utility gain and risk minimization through CBHI as the main reasons for dropout from the program.²⁷

In this study, the time of enrollment is related to the dropout rate of the CBHI program. Specifically, compared with 1–3 years of membership, ≥ 4 years of enrollment is associated with a 61% drop in the dropout rate. This result is supported by the studies done in India,³² and Ethiopia,^{26,33} where CBHI enrolls with longer length of enrollment were more satisfied and kept their membership than those with shorter length of enrollment and households that were members of an existing CBHI scheme already were more willing to keep into the scheme.³⁴ Long-term members of CBHI can increase awareness and knowledge of the importance of the CBHI program and help reduce the CBHI dropout rate. In addition, when family members stay in the plan for a long time, they may also consider the money they have deposited for a long time.³²

Participants who have poor knowledge of CBHI are 1.93 times more likely to withdraw from the CBHI program than participants who know about CBHI. Reports from Tanzania³ and Ethiopia²¹ support this finding. A possible explanation may be a lack of knowledge and understanding of the risk-sharing principles of the CBHI program, which may increase the dropout rate. Having good knowledge and information on the role of the CBHI program will help CBHI enrollment, and it decreases the dropout rate.³ Sufficient information on the benefits of the CBHI program may contribute to building

Table 4 Bi-Variable and Multivariable Logistic Regression Analysis for CBHI Dropout Rate and Associated Factors at Dera District Northwest Ethiopia 2020

Variables	Category	CBHI Dropout			
		No	Yes	COR(95% CI)	AOR(with 95% CI)
Age of respondent in years	20–24	167	108	1	1
	25–49	167	92	0.26(0.86,0.81)	1.37(0.67,2.80)
	>50	32	18	1.02(0.54,1.92)	1.21(0.60,2.44)
Number of family size	<5	196	138	1	1
	≥ 5	170	80	0.66(0.47,0.94)	0.73(0.49,1.08)
Length of CBHI enrolment	1–3 years	174	147	1	1
	≥4 years	192	71	0.43(0.30,0.62)	0.39(0.26,0.59)*
Frequency of health facility visit	1–3 times	223	122	1	1
	4–6 times	107	56	2.03(1.23,3.35)	1.92(1.10,3.32)*
	≥7 times	36	40	1.12(1.22,3.69)	1.41(0.76,2.62)
Accessibility of hospital	Yes	61	47	1	1
	No	305	171	1.84(1.12,3.01)	1.68(1.02,2.77)*
Knowledge about CBHI	Good knowledge	199	146	1	1
	Poor knowledge	167	72	1.70(1.20,2.41)	1.93(1.32,2.82)
Self-rated health status	Very poor	24	7	1	1
	Poor	72	42	3.08(1.18,8.01)	2.39(0.86,6.64)
	Medium	133	63	1.15(0.85,2.78)	1.32(0.58,2.20)
	Good	97	70	1.90(1.10,3.26)	1.46(0.78,2.58)
	Very good	40	36	1.25(0.72,2.15)	0.87(0.48,1.59)
Sick adult in the last 3 months	Yes	180	84	1	1
	No	186	134	0.64(0.46,0.91)	0.79(0.54,1.15)
Participation in any solidarity	Yes	303	163	1	1
	No	63	55	0.61(0.40,0.92)	0.86(0.55,1.35)
Position holder for decision rule	Wife	21	15	1	1
	Husband	120	49	1.67(1.13,2.47)	2.07(1.33,3.23)*
	Jointly	255	154	0.96(0.48,1.92)	1.27(0.59,2.76)

Note: *Indicates the variables with p-value ≤0.05.

members' trust in CBHI system management, and it promotes the retention of members in the program.³

Inaccessibility of the hospital is also an important factor for the dropout rate of the CBHI program. Those who had no access to the hospital were 1.68 times more likely to drop out of their CBHI schemes than those who had access to hospitals. This finding is similar to the study done in Ethiopia.³⁵ The possible reason might be as the distance of hospitals from home increases, it may confront people with additional transportation and other health-related costs like bedroom and food. Then, their interest in the dropout from the program increases.³⁵ The finding in this study is contrary to other studies done in Burkina Faso and Ethiopia. The possible reason might be those

CBHI members living far from the health facility may face higher non-medical costs like the cost of transportation, food, bed, and other opportunity costs when seeking health care besides the medical cost.¹²

The number of official position holders used for decision-making in male-headed households is 2.07 times higher than that of female-headed households. This result is comparable to the results of similar studies conducted in Asian countries,⁹ Ghana,²⁰ and Ethiopia.^{9,21,27,36} This may be due to the fact that women have a higher risk tendency than men and are responsible for family health. Women are the largest users of health care, and they may have a special recognition of the CBHI program. Women as caregivers for children and other patients in the family,

coupled with their vulnerability and physiologic makeup, may have a more positive attitude toward CBHI decision-making than their male counterparts.²⁰

The frequency of health facility visits has a positive association with CBHI of the dropout rate. Those individuals who had visited health facilities 4–6 times a year were 1.92 times more likely to drop out of their CBHI scheme than those who had visited health facilities 1–3 times per year. The explanation might be as the frequency of health facility visit increase client's confrontation to a health professional, and other supporting staff increase, and then their satisfaction may exhaust, and then their trust by a health professional and contracted health facility also decrease, and they may drop from CBHI scheme. However, this finding is different from the Bangladesh study,¹⁸ and the possible explanation may be that the client frequently visits the health facilities will be increased medical and non-medical costs, as a result, the likelihood of renewal also increased to reduce the cost.⁶ Quality of healthcare service in the health facilities might be better in Bangladesh.

Limitation

This research is of great significance. First, it covers a small number of schemes, a single area study, and the sample size is small. Second, the limitation is that for the cross-sectional and non-experimental study design; it is difficult to attribute causality.

Conclusions

The report shows that the CBHI dropout rate in the area is high. Length of enrollment, health facility visit, hospital accessibility, knowledge of CBHI, and official position holders used for decision-making are significantly associated with the CBHI dropout rate. Therefore, we should focus on improving members' understanding of the CBHI package of benefits; increasing access to hospitals and empowering women will increase the utilization of CBHI. In addition, the quality of medical care for CBHI patients is improved when accessing medical care.

Abbreviations

AOR, adjusted odds ratio; CBHI, community-based health insurance; CI, confidence interval; COR, crude odd ratio; LMICs, lower- and middle-income countries; OOP, out-of-pocket payment; PCA, principal component analysis; SPSS, Statistical Package for Social Sciences; SSA, sub-

Saharan Africa; UHC, universal health coverage; WHO, World Health Organization.

Data Sharing Statement

Data will be available upon request from the corresponding authors.

Consent for Publication

Not applicable.

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Author Contributions

All authors made a substantial contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis and interpretation, or in all these areas; took part in drafting, revising or critically reviewing the article; gave final approval of the version to be published; have agreed on the journal to which the article has been submitted; and agree to be accountable for all aspects of the work.

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The authors report no conflicts of interest for this work.

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