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Article info

Availability of Health Services through Health Insurance Schemes in Tanzania

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ABSTRACT

This article presents citizens' perceptions of the availability of health services through Article history community-based health insurance schemes in Tanzania as of 2015. A descriptive cross-Received: 25/12/2021 sectional design involving qualitative and quantitative methods was adopted to collect data Accepted: from 433 individuals in six districts of Tanzania's mainland. Data collected through 30/08 2022 questionnaires, in-depth interviews, focus group discussions, and documentary reviews were Published: analysed descriptively and thematically. The results indicated that the unavailability of 30/09/2022 health services is still a challenge for insured poor households in Tanzania. This is due to inadequate health facilities, frequent drug stock out, shortage of health workers and equipment, long distance to health facilities, especially in rural areas, and long waits for consultations. This bears on the inadequate availability of health services for poor households in the study areas. Therefore, scaling up the availability of health services through health insurance, efforts to make health facilities available and closer to people, sufficient supply of drugs, health workers, and equipment, and short waits for health services are important.

Keywords: Households, Service Availability, Health Insurance

1. INTRODUCTION

Access to health services, defined as a possibility for people to use health care when needed (Guilford *et al.*, 2001), remains a big challenge as millions of people lack access to it. Evidence shows that an estimated 1.3 billion people are deprived of health services due to out-of-pocket (OOP) payments made at the point of receiving services (Oxfam International, 2008). Most people who lack access to health services live in low and middle-income countries (LMICs) (REPOA 2006; Escobar *et al.*, 2010), where there is a wide disparity between disease burden and expenditure on health (Mathers *et al.*, 2006). Although the LMICs account for 84% of the global population and 90% of the global disease, they account for only 12% of the global health spending (Mathers *et al.*, 2006; Adebayo, 2014). Conversely, higher-income countries account for 9.7% of the global disease but account for 88% of the global health spending (Adebayo, 2014). For example, Sub-Saharan Africa carries 24% of the global disease but spends less than 1% of the world's financial resources on health (WHO, 2006).

Recognising the devastating effects of the OOP, policymakers in the LMICs have developed an interest in community-based health insurance (Oxfam International, 2008). Health insurance protects people from the cost of care, which can become a barrier to seeking and obtaining health care (Yellaiah, 2012). In addition, it increases health-seeking behaviour due to reduced OOP expenditures for medical treatment (Dekker & Wilms, 2010) and enables health workers to concentrate on the treatment of patients rather than thinking about the patient's ability to pay.

Health insurance has been in operation in Tanzania since 1993, following the introduction of a cost-sharing policy that led to the establishment of prepayment mechanisms (MOH, 2003). The mechanisms include Community Health Fund (CHF) for rural areas in 2001 and *Tiba Kwa Kadi* (TIKA) for urban areas in 2009. Others are a mutual health insurance for the informal sector in 1995 namely, Umoja *wa Matibabu Sekta Isiyo Rasmi* Dar es Salaam (UMASIDA) and *Vikundi vya wenye Biashara Ndogondogo* (VIBINDO) as a 'petty traders association' (Mtei *et al.*, 2007). The community managed health insurance schemes for the poor in Dar es Salaam namely, "Mfuko wa Bima ya Afya wa Atiman – Yombo (MBAKAYO) in 1998 (MBAKAYO, 2015) and Mfuko *wa Afya, Atman-Manzese*' (MAAMZ) in 2005 (Debaig, 1999). Despite all these schemes, it is not yet clear whether the health insurance program expands access to healthcare for poor people. Several studies comment that although coverage is central to increasing access to healthcare, people still face barriers (Jutting, 2003; Sarkar, 2007; Wagstaff *et al.*, 2007). Effective access includes healthcare availability, affordability, and acceptability (ILO, 1014).

This article presents perceptions on the availability of health services for the poor through health insurance.

2. CONCEPTUAL FRAMEWORK OF THE STUDY

The framework presents the theory guiding the study, the definition of health insurance and availability of health services, and measures of availability of health services. This study was guided by Gilson and Schneider's Dynamic Interaction Framework (2007), which views access to healthcare as a "degree of fit" between the health system and those it serves, involving availability, affordability, and acceptability of services, shaped by both supply and demand side factors (Gilson and Schneider, 2007). *Health insurance* is a sickness fund where people pay an annual premium while guaranteeing them the right to health services (Carrin *et al., 2005*). *Availability of health services* entails the relationship between the volume and type of services provided and clients' needs (Penchansky & Thomas 1981), reachability of the care that meets a minimum standard (Obrist *et al.,* 2001), and having appropriate health services in the right place and at the right time (Gilson & Schneider 2007).

Health insurance literature has consistently pointed out indicators of availability of health services as the presence of health facilities (ILO 2014); availability of drugs (Kamuzora *et al.*, 2007; Vialle-Valentin *et al.*, 2008; USAID 2010; TWAWEZA 2013), availability of equipment (Wiesmann & Jutting, 2000), and number health workers (Schneider *et al.*, 2006; Sikika, 2010). Other indicators are distance to the nearest health facility (Rogers-Witte *et al.*, 2009), time taken to reach the health facility (Chen *et al.*, 2012), health facility opening and closing hours, waiting and consultation times (Guilford *et al.*, 2001; Ensor and Cooper, 2004), and actual use of services (Donabedian, 1972; Aday & Andersen, 1974).

2.1 Empirical Literature Review

The review on the effect of health insurance on the availability of health services is mixed. While literature shows an association between health insurance status and a pattern of access to health services, health insurance increased the following services. For example, healthcare utilisation among the poor in Colombia (Hassan *et al.*, 2013) and in Australia (Sparrow *et al.*, 2013); inpatient and outpatient care, except among the poor in China (Wagstaff *et al.*, 2007); use of care but with increased OOP payments in Vietnam (Wagstaff and Pradhan, 2006); visits to health facilities in Burkina Faso (Gnawalia et al., 2009); and Saudi Arabia (Al-Hanawi *et al.*, 2020).

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All these resulted in higher health care use among insured non-poor households than insured poor households in Rwanda did (Shimile, 2010).

On the other hand, it is reportedly facing challenges affecting its efficiency. For example, it is reported that Gabon's health insurance did not improve health care due to health workers' rudeness and shortage of drugs (Sanogo *et al.*,2020). Similarly, the Chinese health insurance policy on anti-cancer was affected by frequent drug stock-out (Fang et al., 2021), while it was affected by long waiting and consultation time for people with health insurance as opposed to short time for those without it in Brazil (Golvao *et al.*, 2020). Further, the literature indicates that health insurance for the poor had minimal impact on care utilisation in Nicaragua (Hatt *et al.*, 2009); health facilities experienced inappropriate opening and closing hours in Vietnam (Thanh, 2015); and were insufficient in Senegal (Chankoval et al., 2008) and Ghana (Asomani 2014).

Few studies report that health insurance facilitates access to health care (Tungu et al., 2020; Amani *et al.*, 2021) in Tanzania. However, some report that despite the status of health insurance, it is challenged by the unavailability of care due to physical distance (Rogers-Witter et al., 2009), poor health workers' attitudes, limited referrals (Borghi *et al.*, 2013), long waiting times and delays in administrative processes (Groccia et al., 2013). Thus, based on the empirical review, it can be concluded that having health insurance does not necessarily mean that access to care is achieved.

3. METHODS

3.1 Study Design and Setting

The study adopted a descriptive cross-sectional design to examine the availability of health services through health insurance schemes (Kothari, 2004). It employed both quantitative and qualitative approaches to enhance the validity of the results (Creswell & Clark, 2007). Data were gathered in six districts of Tanzania's mainland, namely Igunga, Iramba, Iringa urban, Moshi urban, Kinondoni, and Ilala, as they had schemes targeting the poor and reliable data on the use of care.

3.2 Sample Size and Sampling Procedures

The study involved 433 respondents who were drawn from both rural and urban communities. These were 384 heads of poor households as the target population and 49 key informants. 20 health workers as suppliers of health services; 10 health facility governing committee

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chairpersons as community representatives; 10 health facility managers responsible for managing the health facilities; 6 district health insurance coordinators accountable for the performance of the schemes in the districts; and three national health insurance managers responsible for regulating and supervising health insurance. These were considered to possess information about the study, thus ensuring the credibility of the findings (Rubin & Rubin, 2005).

Since there was no prior information on the number of poor households in the study sites, a statistical procedure for estimating sample size by Cochran (1977) was adopted for quantitative study: Equation (1) $\frac{n = (Z\alpha)^2 x pq}{d^2}$

Where *n* is the minimum required sample, $Z\alpha$ is the value for the selected alpha level of 1.961.96 or 0.025 in each tail representing the normal standard deviation at a 95% confidence level; p is the proportion of respondents indicating their involvement in a previous study; q as 1 - p; and das a level of precision or acceptable margin of error for proportion being estimated = 0.05. Thus, the minimum sample size was 384 respondents. To get the 384 respondents 'a multistage sampling technique was adopted. Firstly, purposively, five administrative regions of Tanzania's mainland in which health insurance schemes targeting the poor operate were selected. Secondly, through a simple stratified sampling technique, six districts were selected. Thirdly, two villages/streets were selected through simple stratified sampling to fill in questionnaires in each district. Finally, the calculated sample was shared equally across the districts. Likewise, to get respondents for a qualitative study, a purposive sampling technique was adopted. Respondents were identified in a step-wise process. Firstly, the District Health Insurance Coordinator was selected for an interview. Secondly, two health facilities providing health services to insured people were selected. Thirdly, in each health facility, the facility manager, the chairperson of the health facility governing committee, and two health workers were selected for interviews. Fourthly, 5 to 8 participants were chosen for Focus group Discussions (FGDs).

3.3 Methods of Data Collection

A methodological triangulation approach was adopted to collect data from different subjects. Quantitative data were collected through pre-tested questionnaires administered to 384 heads of poor households. Qualitative data were collected through in-depth interviews administered to 49 key informants, twelve (12) FGDs with some respondents who had also participated in the household survey and articulated issues on availability of care, and documentary reviews that included published and unpublished documents related to the study. Both in-depth interviews

and FGDs were undertaken in Swahili, transcribed in English, recorded, and supplemented with field notes. In-depth interviews lasted 30-40 minutes, whereas FGDs lasted between 40-60 minutes. In addition, data on population, the number of poor households, enrolment rates over ten years, and lists of enrollees who visited health facilities were collected through document review.

3.4 Analysis of Data

Quantitative data was collected through SPSS, Version 20, and Microsoft Excel. The process started by entering data into the SPSS program to generate frequencies and percentages and presenting them in a descriptive form, such as tables and graphs. Qualitative data was analysed through 'Thematic Content Analysis' involving data reduction, display, conclusions, and verifications (Miles & Huberman, 1994). Responses from different sources were compared to enhance trustworthiness. Finally, data were summarised and synthesised to make key expressions of the respondents as illustrative cases.

3.5 Validity and Reliability

The study employed a representative sample for both quantitative and qualitative data, screened the research tool drafts, and pre-tested them to avoid irrelevant information and minimise errors. Further, data collected from different sources were compared.

3.6 Ethical Considerations

The University of Dar es Salaam granted research clearance on behalf of the Tanzania Commission for Science and Technology. The clearance letter was presented to the national, regional, and district authorities for approval in their administrative areas. Verbal consent was sought, and respondents were told they had the right to withdraw from the study at any time. Confidentiality of information was maintained, and funds allocated for the study were used according to the budget guidelines.

4. RESULTS

Availability of health services was studied through 11 measures, namely presence of health facilities, prompt use of services, distance to the nearest health facility, mode of transport used, time is taken to reach a health facility; availability of drugs, equipment, and health workers; opening and closing hours of health facilities; waiting times; and sufficiency of consultation times

4.1 Presence of Health Facilities

Health facilities contracted to provide health services for insured people were not sufficient. The findings presented in Table 1 show that 4 out of 6 districts contracted less than 25% of all the health facilities available in the district. For example, Kinondoni, with 204 health facilities, provided care to MAAMz members in only one (0.5%) health facility.

S	Districts	Scheme		Numbe	r of health	facilities	;	
Ν			Health Facilit	ties Available			Facilitie	s Contracted
			Dispensaries	Health Centres	Hospital	Total	f	%
1	Kinondoni	MAAMz	184	09	11	204	1	0.5
2	Ilala	MBAKAYO	123	14	08	145	1	0.7
3	Iringa	TIKA	24	04	03	31	10	32.3
4	Moshi	TIKA	47	08	06	61	14	23.0
5	Iramba	CHF	37	03	01	41	35	85.4
6	Igunga	CHF	56	05	02	63	54	85.7

Table 1: Number of Health Facilities that Provided Services to the Insured

Source: Data (2015)

4.2 Prompt Use of Services

The respondents were asked to indicate the number of times they had visited health facilities for treatment during the last 12 months to understand the actual use of health services. As illustrated in Table 2, the majority (60.4%) visited health facilities between 2 and 5 times in the last twelve months. Others 6.8% did not visit any health facility; 13.3% visited once, 15.6% visited between 6 and 10 times, and 3.9% visited more than 10 times.

					Res	sponse	s by I	Districts	5				Tota	l
Visits to	Irin	ga	Irar	nba	Igu	inga	Mos	shi	Ilala	ı	Kino	ndoni	f	%
facilities	f	%	f	%	f	%	f	%	f	%	f	%		
None	10	15.6	2	3.1	4	6.3	9	14.1	1	1.6	0	0.0	26	6.8
only once	14	21.9	4	6.3	4	6.3	16	25.0	2	3.1	11	17.2	51	13.3
2-5 times	34	53.1	38	59.4	33	51.6	27	42.2	48	75.0	52	81.3	232	60.4
6-10 times	6	9.4	15	23.4	14	21.9	11	17.2	13	20.3	1	1.6	60	15.6
>10 times	0	0.0	5	7.8	9	14.1	1	1.6	0	0.0	0	0.0	15	3.9
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

Table 2: Visits Respondents made to Health Facilities for Treatment within 12 months

Source: Data (2015)

However, the documentary review on the number of visits made to health facilities for treatment before 2013 revealed that some facilities did not have a system to track the visits. In 2013, the government introduced District Health Information System 2(DHIS2), which all local government authorities were supposed to use. Still, the system did not indicate the difference

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between insured and uninsured health facility visitors. Table 3 shows the number of visits to health facilities in the study sites.

	Iringa	Iramba	Igunga	Moshi	Ilala	Kinondoni
2006	-	7,238	4,128	-	146	122
2007	-	2,576	5,931	-	69	164
2008	-	3,761	5,744	-	54	197
2009	-	5,410	6,202	-	24	188
2010	-	4,734	6,045	-	149	207
2011	-	8,517	7,856	-	-	235
2012	-	13,752	3,920	-	-	196
2013	1,096	11,336	5,125	13,764	-	98
2014	2,938	10,467	7,123	11,863	-	80
2015	3,213	11,408	5,368	13,757	-	81

 Table 3: Visits to Health Facilities by Clients, 2006-2015

Source: Data (2015)

4.3 Distance of the Household from the Nearest Health Facility

According to Tanzania's Ministry of Health and Social Welfare (MOHSW) standards (2014), households should be located 5 km from the nearest health facility. Table 4 results indicate that only a few (16.4%) respondents lived more than 5km from health facilities. Thus, the majority (83.6%) of respondents lived within 5 km. However, households in urban areas tended to live more closely to the health facilities than their counterparts in rural areas.

 Table 4: The Nearest Health Facility from Respondent's House

					Res	ponses l	oy Dis	tricts					Te	otal
	I	ringa	Ira	mba	Igu	unga	Μ	oshi	I	lala	Ki	nondo	f	%
						-						ni		
Distances	f	%	f	%	f	%	f	%	f	%	f	%		
0 - 1 km	20	31.3	8	12.5	11	17.2	32	50.0	19	29.7	34	53.1	124	32.3
2 - 3 km	28	43.8	15	23.4	16	25.0	22	34.4	18	28.1	22	34.4	121	31.5
4 - 5 km	9	14.0	17	26.6	19	29.7	4	6.3	19	29.7	8	12.5	76	19.8
>5km	7	10.9	24	37.5	18	28.1	6	9.4	8	12.5	0	0.0	63	16.4
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

Source: Data (2015)

4.4 Mode of Transport to the Health Facility

Regarding transport means and distance covered to the health facility, the respondents were asked to indicate the mode of transport they used to reach the health facilities. Results in Table 5 show that less than a quarter (9.7%) of the respondents used private cars, public or taxis to the health facility. Instead, most (48.4%) respondents reported walking as the major means of transport to the health facilities.

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					R	esponse	es by	District	S				Т	otal
Means of	Iri	nga	Ira	mba	Ig	unga	Μ	loshi	Ila	ala	Kino	ondoni	f	%
Transport	f	%	f	%	f	%	f	%	f	%	f	%		
Personal vehicle	5	7.8	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	6	1.6
Bus (Public)	13	20.3	0	0.0	2	3.1	3	4.7	2	3.1	4	6.3	24	6.3
Taxi	5	7.8	0	0.0	1	1.6	1	1.6	0	0.0	0	0.0	7	1.8
Motorcycle	8	12.5	17	26.6	12	18.8	11	17.2	35	54.7	15	23.4	98	25.5
Bicycle	8	12.5	20	31.3	27	42.1	6	9.4	2	3.2	0	0.0	63	16.4
Walked	25	30.1	27	42.1	22	34.4	43	67.2	25	30.1	44	68.8	186	48.4
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

 Table 5: Mode of Transport to Health Facility

Source: Data, (2015)

4.5 Time Taken to Reach the Health Facility (Travel time)

The time taken to reach health facilities was studied with the assumption that people living within 30 minutes walk would be closer to health services. The findings in Table 6 indicate more than one-third (41.2%) of the respondents, mainly living in rural areas, walk more than half an hour to health facilities.

					Re	esponse	s by D	istricts					Total	l
	Iring	ga	Iran	nba	Igu	nga	Mosh	i	Ilala		Kine	ondoni	f	%
Travel time	f	%	f	%	f	%	f	%	f	%	f	%		
< 15 minutes	11	17.2	10	15.6	10	15.6	30	46.9	4	6.3	20	31.3	85	22.1
15-30 minutes	32	50.0	10	15.6	15	23.4	23	35.9	39	60.9	21	32.8	140	36.5
31-45 minutes	15	23.4	11	17.2	15	23.4	5	7.8	11	17.2	11	17.2	68	17.7
46-60 minutes	6	9.4	22	34.4	18	28.1	6	9.4	10	15.6	9	14.0	71	18.5
> 1hour	0	0.0	11	17.2	6	9.4	0	0.0	0	0.0	3	4.7	20	5.2
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

Table 6: Time Taken by Respondents to Reach Health Facilities

Source: Data (2015)

4.6 Availability of Health Workers

When asked to rate the availability of health workers in the health facilities, 2.1% ranked it 'very good, 64.8% rated it 'good,' 13.3% were 'undecided,' 19.5% rated it 'bad,' and 0.3% rated it 'very bad.' However, while the majority (64.8%) indicated the availability of health workers in the health facilities as good, the proportion of the urban areas was higher than that of rural areas.

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Status of					Re	sponses	by D	istricts					Tot	al
Health	Iring	ga	Irai	mba	Igu	nga	Mo	shi	Ilal	a	Kine	ondoni	f	%
Workers	f	%	f	%	f	%	f	%	F	%	f	%		
Very good	3	4.7	2	3.1	1	1.6	2	3.1	0	0.0	0	0.0	8	2.1
Good	43	67.2	29	45.3	29	45.3	44	68.8	57	89.1	47	73.4	249	64.8
Undecided	8	12.5	10	15.6	12	18.8	3	4.7	4	6.3	14	21.9	51	13.3
Bad	10	15.6	22	34.4	22	34.4	15	23.3	3	4.7	3	4.7	75	19.5
Very Bad	0	0.0	1	1.6	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

 Table 7: Respondents' Perception of Availability of Health Workers

Source: Data (2015)

According to the MOHSW (2014), the number of health workers for dispensaries is 15 to 20; 39 to 52 for health centres; 200 to 312 for district hospitals; 468 to 680 for Regional Referral Hospitals, and at least 5,701 for National and Specialized Referrals. However, documentary reviews from 60% of the visited health facilities (Table 8) and FGD indicate a shortage of health workers. For example, during FGDs, one of the participants echoed,

Although this facility provides services to people from more than four villages, there are only two health workers. We do not know when this situation will change (FGD6.Participant N46).

SN	District	Health Facility	Minimum No.	Avai	lable	Shortage (-) /Excess (+)
			required	F	%	f	%
1	Kinondoni	TipTop Dispensary	15	10	66.7	-05	-33.3
2	Ilala	St.Camillus Dispensary	15	15	100	00	0.0
3	Iramba	Kisiriri Dispensary	15	02	13.3	-13	-86.7
		Bomani Dispensary	15	07	46.7	-08	-53.3
4	Igunga	Nanga Health Centre	39	17	43.6	-22	-56.4
		Ziba Dispensary	15	07	46.7	-08	-53.3
5	Moshi	Majengo Health Centre	39	65	166.7	+26	+66.7
		Pasua Health Centre	39	56	143.6	+17	+43.6
6	Iringa	Ipogolo Health centre	39	61	156.4	+22	+56.4
		Frelimo Hospital	200	115	57.5	-85	-42.5

Table 8: Number of Health Workers in Health Facilities Visited

Source: Data (2015)

4.7 Availability of drugs

The respondents were asked to rate the availability of drugs in the health facilities they visited for treatment. The results in Table 9 show that the shortage of drugs is the main challenge, as the majority (65.4%) of the respondents ranked it badly. Similarly, during FGD, one participant said,

Availability of drugs is a big problem, and we don't know why" (FGD10.P78). Another participant said, "Generally, service provision in our health facility is not good. We do not get the prescribed drugs. (FGD17. Participant N133).

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					Res	sponses b	y Dist	ricts					Total	
Drugs	Iring	ga	Iram	ba	Igur	nga	Mos	hi	Ilala		Kin	ondoni	f	%
availability	f	%	f	%	f	%	f	%	f	%	f	%		
Very good	1	1.6	2	3.1	0	0.0	0	0.0	0	0.0	0	0.0	3	0.8
Good	24	37.5	5	7.8	13	20.3	22	34.4	0	0.0	1	1.6	65	16.9
Undecided	6	9.4	14	21.9	2	3.1	1	1.6	7	10.9	21	32.8	51	13.3
Bad	28	43.8	41	64.1	47	73.4	40	62.5	53	82.8	42	65.6	251	65.4
Very Bad	5	7.8	2	3.1	2	3.1	1	1.6	4	6.3	0	0.0	14	3.6
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

 Table 9: Perception of Availability of Drugs in the Health Facilities

Source: Data (2015)

4.8 Availability of Equipment

Regarding equipment, the respondents were asked to rate the status of the availability of equipment, whether it was (i) very good, (ii) good; (iii) undecided, (iv) bad, and (v) very bad. Results in Table 10 indicate that less than a quarter (21.3%) of the respondents note equipment availability is sufficient. Thus, most respondents were either not in a position to judge or ranked the availability of equipment as bad

 Table 10: Perception of Availability of Equipment in the Health Facilities

	Resp	onses by	y Dist	rict of]	Respo	ondents							Total	l
Equipment	Iring	a	Irar	nba	Igui	ıga	Mos	shi	Ilala	ı	Kino	ndoni	f	%
availability	ailabilityfery good0ood1726			%	f	%	f	%	f	%	f	%		
Very good	0	0.0	2	3.1	2	3.1	0	0.0	0	0.0	0	0.0	4	1.0
Good	17	26.6	11	17.2	18	28.1	26	40.6	0	0.0	6	9.4	78	20.3
Undecided	32	50.0	25	39.1	17	26.6	9	14.0	17	26.6	17	26.6	117	30.5
Bad	13	20.3	21	32.8	27	42.2	22	34.4	38	59.4	41	64.1	162	42.2
Very Bad	2	3.1	5	7.8	0	0.0	7	10.9	9	14.1	0	0.0	23	6.0
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

Source: Data (2015)

4.9 Opening and Closing Hours of Health Facilities

The respondents were asked to state whether the opening and closing hours of the health facilities they often visited for treatment were convenient. Regarding the opening hours, as presented in Table 11, the majority (83.6%) of the respondents said they were convenient. The closing hours were also convenient to the majority (64.1%) of the respondents.

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Operatin						R	esponse	es by I	District	s				To	tal
g time		Iri	nga	Irar	nba	Igu	nga	Mos	shi	Ilal	a	Kinor	ndoni	f	%
	Response	f	%	f	%	f	%	f	%	f	%	f	%		
Opening	Yes	48	75.0	48	75.0	55	85.9	52	81.3	61	95.3	49	76.6	321	83.6
Hours	No	14	21.9	14	21.9	8	12.5	11	17.2	3	4.7	11	17.2	53	13.8
Convenient	Don't Know	2	3.1	2	3.1	1	1.6	1	1.6	0	0.0	4	6.3	10	2.6
	Total	64	100	64	100	64	100	64	100	64	100	64	100	384	100
Closing	Yes	47	73.4	44	68.8	48	75.0	44	68.8	38	59.4	25	39.1	246	64.1
Hours	No	15	23.4	14	21.9	11	17.2	12	18.8	13	20.3	13	20.3	78	20.3
Convenient	Don't Know	2	3.1	6	9.4	5	7.8	8	12.5	13	20.3	26	40.6	60	15.6
	Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

 Table 11: Perceptions on Opening and Closing Hours of the Health Facilities

Source: Data (2015)

4.10 Waiting Time for Consultations

The respondents were asked whether the waiting time before seeing the doctor was long or short. Findings in Table 12 show that almost two-thirds (66.7%) of them said the waiting time was long. Long waits for health services were partly due to the shortage and negligence of health workers and lengthy procedures to get services. This was also complemented with FGD information as three FGD participants said,

As I said, we have only two health workers at our health facility, and the dispensary serves people from more than five villages. (FGD5. Participant N39)'. 'During the night, it is very difficult to get them (doctors) to attend to our patients. When you reach the health facility, you can knock on the door for so long, and the door is not opened until you get tired' (FGD6.Participant N48). 'I expected that since I had already paid for the services, the procedures to access the services would be short. Indeed, the process of seeing the doctors is long in the facilities. (FGD11. Participant N81).

						Re	sponses	by D	istricts					Tota	l
		Ir	inga	Ira	mba	Ig	unga	Ι	lala	Kino	ndoni	f	%		
Respon	ises	f	%	f	%	f	%	f	%	f	%	f	%		
Long time	waiting	48	75.0	45	70.3	44	68.8	40	62.5	42	65.6	37	57.8	256	66.7
Short time	waiting	16	25.0	19	29.7	20	31.3	24	37.5	22	34.4	27	42.2	128	33.3
	Total	64	100.0	64	100	64	100.0	64	100.0	64	100.0	64	10.00	384	100.0

Table 12: Status of Waiting Time before Seeing the Doctor

Source: Data (2015)

4.11 Time for Consultation

Literature shows that when patients have enough time to express themselves, they feel that health facilities pay attention to them. However, when asked whether doctors took sufficient time to listen to patients during consultations, almost half (45.8%) of the respondents reported that the consultation time was inadequate. Data by study sites stated the same as shown in Table 13.

Ndunguru.

Responses on	sponses on Responses by District												Total	
consultation	Iringa		Iramba		Igunga		Moshi		Ilala		Kinondoni		f	%
time	F	%	f	%	f	%	f	%	f	%	f	%		
Sufficient	32	50	46	71.9	42	65.6	41	64.1	18	28.1	29	45.3	208	54.2
Not Sufficient	32	50	18	28.1	22	34.4	23	35.9	46	71.9	35	54.7	176	45.8
Total	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	64	100.0	384	100.0

Table 13: Respondents' Perception of Sufficiency of Time for Consultations

Source: Data (2015)

5. DISCUSSION OF RESULTS

From the findings, contracted health facilities to provide health services for the insured people were insufficient, as 4 out of 6 districts each had contracted less than 25% of all the health facilities available in the district. While some members received the services in public health facilities alone, others were limited to a single provider. Sometimes people were forced to walk long to health facilities, leaving others found nearer to their residences. This result is in line with Chankova et al., (2008) in Senegal and Asomani's (2014) in Ghana, thus suggesting the unavailability of health services. Likewise, the findings showed that a higher proportion (60.4%) of the respondents visited health facilities for treatment when needed. This finding resembles the study results by Gnawalia et al., (2009) in Burkina Faso and Al-Hanawi *et al.*, (2020) in the Kingdom of Saudi Arabia, which established that introduction of health insurance increased visits to health facilities among the insured people.

The study found that although most (83.6%) of the respondents live within 5 kilometres of health facilities, rural dwellers still face difficulties using health services. It was revealed that urban households lived more closely, 15 and 30 minutes walk to health facilities, which made them either satisfied or very satisfied. Similarly, it was noted that most rural households lived far from health facilities, used between 31 and 60 minutes walk and were either dissatisfied or very dissatisfied. This result resembles study results by Rogers-Witte *et al.*, (2009) in Tanzania. Rural people are not truly covered if they face long distances to reach health service providers (Wang & Pielemeier, 2012). This calls for the need for more health facilities in rural areas.

The study also found a frequent shortage of drugs, as 65.4% of the respondents rated the availability of medicines in the health facilities as 'bad.' This forced some people to spend more money to buy medicine elsewhere or go without medication. This result is consistent with previous studies by Sanogo *et al.*, (2020) in Gabon and Frang *et al.*, (2021) in China, who noted

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the unavailability of drugs as a barrier to access to health services for the poor. According to Vialle-Valentin *et al.*, (2008), despite the introduction of health insurance, medicines are the largest reported component of OOP payment for health care in these countries. Moreover, the majority (48.2%) of the respondents reported equipment in the health facilities as' bad'. Shortage of equipment in health facilities is consistent with study results by Wiesmann and Jutting (2000).

Further, the study found a shortage of health workers in health facilities, especially in rural areas. Findings showed that 66% of the visited health facilities in urban areas had at least the minimum number of health workers. In contrast, all health facilities in rural areas had less than the minimum number. This led to long waits for services and overloads to health workers that, in turn, reduced the quality of services they provided. This finding is consistent with study results by Schneider *et al.*, (2006) and Sikika (2010) in Tanzania.

However, the study documented that most respondents were contented with the opening (83.6%) and closing (64.1%) hours of the health facilities. These findings resemble Thahn's (2015) in Vietnam. Further, the waiting time before seeing the doctor for consultation was sufficient. This finding corresponds to the World Bank's (2007) and Groccia et al., (2013) study results in Tanzania.

6. CONCLUSIONS AND RECOMMENDATIONS

It is difficult to argue that health services were available to poor households in the study areas. This is due to poor quality of services exhibited by problems of inadequate health facilities, long distance of families from the nearest health facility, especially in rural areas, shortage of health workers, frequent drug stock-out, shortage of equipment, and long waits for consulting the doctors. However, the study documented convenient opening and closing hours of health facilities for rural and urban areas, insurance status, and sufficient time for consultation with doctors. Therefore, addressing the identified issues is vital to make health services available to poor households through health insurance.

7. STUDY LIMITATIONS AND AREAS FOR FURTHER RESEARCH

Both methodological and non-methodological limitations were faced while conducting the study. Methodological limitations ranged from a selection of the study respondents and setting measures of availability of health services, while non-methodological limitations ranged from financial constraints, time factors as well as scheme differences. All the limitations were addressed to make the study a success.

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The study results suggest poor health services available for the poor households in the study areas as of 2015. Therefore, it is recommended that further studies be conducted to explore the sustainability of community–based health insurance in expanding health services accessible to poor people in Tanzania to date. In addition, an investigation can be done into why there is frequent unavailability of prescribed drugs in the health facilities contracted to provide health services to health insurance scheme beneficiaries.

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