

Table 1: Sociodemographic characteristics of adults living in samre woreda, Tigray, Ethiopia, 2023/24 (N= 422).

s.n	variable	Category	frequency	percent
1	Age	18 – 25	141	33.4
		26 – 33	92	21.8
		34 – 41	90	21.3
		>41	99	23.5
		Total	422	100
2	Sex	Female	283	67.1
		Male	139	32.9
		Total	422	100
3	Marital status	Single	96	22.7
		Married	291	69
		Divorced	19	4.5
		Widowed	16	3.8
		Total	422	100
4	Religion	Orthodox	400	94.8
		Muslim	22	5.2
		Total	422	100
5	Ethnicity	Tigray	406	96.2
		Agew	16	3.8
		Total	422	100

6	Educational status	Unable to read & write	124	29.4
		Read & write	25	5.9
		1 – 4	30	7.1
		5 – 8	82	19.4
		9 – 12	110	26.1
		Diploma and above	51	12.1
		Total	422	100
7	Residence	Urban	171	40.5
		Rural	251	59.5
		Total	422	100
8	Kebelle	Finarwa	82	19.4
		Samre town	136	32.2
		Dekera	87	20.6
		Metkel limat	117	27.7
		Total	422	100
9	Occupation	Government employee	41	9.7
		Farmer	133	31.5
		Merchant	54	12.8
		House wife	138	32.7
		Other	56	13.3
		Total	422	100
10	Family size	<5	300	71.1
		>5	122	28.9

			Total	422	100
11	Monthly	<500 birr		309	73.2
	income	500 – 1000 birr		68	16.1
		>1000 birr		45	10.7
			Total	422	100

Table 2: Preventive factors of the participants to assess the prevalence of malaria and its associated factors among adults living in Samre woreda, Tigray, Ethiopia, 2023/24 (N= 422).

s.no	Variable	Category	frequency	Percent
1	Presence of ITN in the house	No	21	5
		Yes	401	95
		Total	422	100
2	If yes, number of ITNs	<2	278	69.3
		>2	123	30.7
		Total	401	100
3	Where do you obtain the ITNs	From Government	389	97
		From NGO	12	3
		Total	401	100
4	Current ITN use	No	118	28
		Yes	304	72
		Total	422	100
5	If no, Reasons for not using ITNs	Do not prevent malaria	7	5.9
		Afraid of its toxicity	9	7.6
		No malaria	47	39.8
		Other	55	46.6
		Total	118	100
6	Frequency of sleeping under an ITNs	Always	260	61.6
		Sometimes	107	25.4
		Never	55	13

Total	422	100
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ITNs: Insecticide-treated nets

Table 3: Housing conditions and environmental characteristics used to assess the prevalence of malaria and its associated factors among adults living in Samre Woreda, Tigray, Ethiopia, 2023/24 (N= 422).

S.no	Variable	Category	Frequency	Percent
1	Type of housing	Thatch up	30	7.1
		Corrugated iron sheet	351	83.2
		Mud	20	4.7
		Other	21	5
		Total	422	100
2	Number of window	No window	30	7.1
		Only one	287	68
		Two	91	21.6
		Three and above	14	3.3
		Total	422	100
3	Presence of stagnant water	No	326	77.3
		Yes	96	22.7
		Total	422	100
4	If yes, distance of stagnant water from the house	<1000 meter	37	38.5
		1000 – 2000 meter	36	37.5
		>2000 meter	23	24
		Total	96	100
5	sleeping outside the house	No	219	51.9
		Yes	203	48.1

		Total	422	100
6	Personal history of malaria	No	177	41.9
		Yes	245	58.1
		Total	422	100
7	Family history of malaria	No	165	39.1
		Yes	257	60.9
		Total	422	100

Table 4: Factors associated with malaria among adults living in Samre Woreda, Tigray, Ethiopia, 2023/24 (N= 422).

S.no	Variable	Category	Malaria		COR	AOR	P-value
			+ve	-ve			
1	Presence of stagnant water	No	27	299	1	1	<0.001*
		Yes	32	64	5.5 (3.1, 9.9)	6 (3, 12.5)	
2	Slept outside house	No	15	204	1	1	0.13
		Yes	44	159	3.8 (2, 7.1)	1.8 (0.8, 4)	
3	Personal history of malaria	No	10	167	1	1	0.15
		Yes	49	196	4.2 (2, 8.5)	2.4 (0.7, 7.8)	
4	Sex	Female	44	239	1.5 (0.81, 2.8)	2.3 (1.1, 4.9)	0.033*
		Male	15	124	1	1	
5	Frequency of ITN usage	Always	21	239	1	1	0.009*
		Sometimes	30	77	4.4 (2.4, 8.2)	3.5 (1.4, 9.2)	
		Never	8	47	1.9 (0.8, 4.6)	0.6 (0.09, 3.7)	
6	Currently use of ITN	No	28	90	2.74 (1.6, 4.8)	2.2 (0.8, 5.8)	0.15
		Yes	31	273	1	1	
7	Presence of ITN	No	6	15	2.6 (0.98, 7.1)	4.6 (0.7, 29)	0.11
		Yes	53	348	1	1	
8	Residence	Urban	32	139	1.9 (1.1, 3.3)	3.2 (1.6, 6.5)	0.002*
		Rural	27	224	1	1	
9		No	11	154	1	1	

	Family history of malaria	Yes	48	209	3.2 (1.6, 6.4)	1.18 (0.35, 4)	0.8
10	Family size	<5	36	264	1	1	
		>5	23	99	1.7 (0.96, 3.1)	1.8 (0.9, 3.6)	0.11

** Variables significant at a P-value less than 0.05*

AOR: Adjusted odds ratio

COR: Crude odds ratio