

Table S1 Unadjusted and Adjusted ORs for the overall Breast Cancer Awareness scale. Categories in brackets represent the referent group.

Effects	ORunadjusted	ORadjusted	95%CI
Age 10yrs	1.06	1.05	(0.90, 1.23)
Rural residence	0.51***	0.43***	(0.29, 0.62)
Education (Primary school and lower)	χ^2 (LRT)= 1.02	χ^2 (LRT)=1.23	
High School	0.86	1.03	(0.70, 1.52)
Diploma or equal	0.97	1.17	(0.61, 2.22)
Bachelor degree	0.85	1.27	(0.70, 2.28)
Higher than Bachelor	0.83	0.67	(0.16, 2.80)
Occupation (Agriculture)	χ^2 (LRT)= 7.26	χ^2 (LRT)=10.33	
Trader	1.23	1.11	(0.72, 1.72)
Laborer	0.76	0.68	(0.41, 1.14)
Government official	0.78	0.49*	(0.24, 0.99)
Unemployment	0.62	0.46*	(0.23, 0.95)
Other	1.02	0.46	(0.38, 1.65)
Other religion	0.87	0.94	(0.66, 1.32)
Marital status (Single)	χ^2 (LRT)= 12.90**	χ^2 (LRT)=6.94*	
Married	1.79**	1.60*	(1.03, 2.48)
Widowed/Divorced/Separated	0.85	0.90	(0.42, 1.91)
Family income (enough and have savings)	χ^2 (LRT)= 8.07*	χ^2 (LRT)=7.35	
Enough and no savings	0.78	0.71	(0.49, 1.02)
Not enough and no debt	0.71	0.84	(0.41, 1.69)
Not enough and have debt	0.48**	0.49*	(0.29, 0.85)
Family history of cancer	0.97	0.89	(0.56, 1.41)
Family history of BC	2.19	2.12	(0.77, 5.86)

***P<0.001, **P<0.01, *P<0.05

Table S2 Unadjusted and Adjusted ORs for B-CAS subscale, health behavior related to breast cancer awareness. Categories in brackets represent the referent group.

Effects	OR unadjusted	ORadjusted	95%CI
Age 10yrs	1.33 ***	1.63***	(1.36,1.95)
Rural residence	6.04 ***	4.73***	(3.08,7.27)
Education (Primary school and lower)	χ^2 (LRT)= 18.90***	χ^2 (LRT)=43.72**	
High School	2.14***	3.80***	(2.42,5.96)
Diploma or equal	2.23**	5.79***	(2.85,11.77)
Bachelor degree	1.41	2.67*	(1.36,5.23)
Higher than Bachelor	0.96	5.02	(0.97,26.07)
Occupation (Agriculture)	χ^2 (LRT)= 21.24***	χ^2 (LRT)=12.96	
Trader	0.50**	0.54*	(0.33,0.90)
Laborer	0.47**	0.81	(0.46,1.43)
Government official	1.03	1.65	(0.75,3.65)
Unemployment	0.48*	0.60	(0.28,1.32)
Other	0.40**	0.56	(0.25,1.26)
Other religion	1.28	1.40	(0.95,2.06)
Marital status (Single)	χ^2 (LRT)= 4.01	χ^2 (LRT)=3.46	
Married	0.82	0.72	(0.43,1.21)
Widowed/Divorced/Separated	1.54	1.23	(0.53,2.86)
Family income (enough and have savings)	χ^2 (LRT)= 25.64 ***	χ^2 (LRT)=16.49***	
Enough and no savings	0.62**	0.72	(0.48,1.07)
Not enough and no debt	2.51**	2.83**	(1.30,6.15)
Not enough and have debt	1.54	1.36	(0.74,2.48)
Family history of cancer	1.17	1.18	(0.71,1.96)
Family history of BC	0.75	0.54	(0.17,1.96)

***P<0.001, **P<0.01,*P<0.05

Table S3 Unadjusted and Adjusted ORs for knowledge of risk factors of breast cancer BCAS subscale. Categories in brackets represent the referent group.

Effects	OR unadjusted	ORadjusted	95%CI
Age 10yrs	1.01	1.01	(0.86,1.19)
Rural residence	0.46***	0.40***	(0.27,0.59)
Education (Primary school and lower)	χ^2 (LRT)= 0.99	χ^2 (LRT)=0.02	
High School	1.01	1.09	(0.73,1.65)
Diploma or equal	0.80	0.91	(0.48,1.73)
Bachelor degree	1.11	1.92*	(1.04,3.57)
Higher than Bachelor	1.07	0.77	(0.14,4.11)
Occupation (Agriculture)	χ^2 (LRT)= 10.43*	χ^2 (LRT)=18.64**	
Trader	0.97	0.99	(0.62,1.57)
Laborer	0.61	0.61	(0.36,1.03)
Government official	0.54*	0.25***	(0.11,0.53)
Unemployment	0.60	0.41***	(0.19,0.87)
Other	1.26	0.97	(0.44,2.14)
Other religion	0.58	0.68	(0.47,0.98)
Marital status (Single)	χ^2 (LRT)= 18.48 ***	χ^2 (LRT)=10.32**	
Married	1.72***	1.52	(0.94,2.46)
Widowed/Divorced/Separated	0.51	0.57	(0.26,1.24)
Family income (enough and have savings)	χ^2 (LRT)= 5.18	χ^2 (LRT)=5.78	
Enough and no savings	0.74	0.64	(0.44,0.93)
Not enough and no debt	0.55	0.71	(0.32,1.56)
Not enough and have debt	0.60	0.63	(0.35,1.12)
Family history of cancer	0.72	0.72	(0.45,1.15)
Family history of BC	1.38	1.42	(0.50,4.02)

***P<0.001, **P<0.01, *P<0.05

Table S4 Unadjusted and Adjusted ORs for knowledge of symptoms of breast cancer BCAS subscale. Categories in brackets represent the referent group.

Effects	OR unadjusted	ORadjusted	95%CI
Age 10yrs	1.21*	1.22	(0.96,1.56)
Rural residence	0.89	0.66	(0.37,1.17)
Education (Primary school and lower)	χ^2 (LRT)= 4.25	χ^2 (LRT)=9.63	
High School	1.23	1.71	(0.92,3.15)
Diploma or equal	2.00	3.79*	(1.22,11.82)
Bachelor degree	0.85	2.46	(0.95,6.33)
Higher than Bachelor	0.42	0.50	(0.08,3.26)
Occupation (Agriculture)	χ^2 (LRT)=14.53 *	χ^2 (LRT)=12.26	
Trader	1.42	1.34	(0.63,2.86)
Laborer	0.48**	0.50	(0.24,1.04)
Government official	0.46*	0.32*	(0.11,0.94)
Unemployment	0.60	0.46	(0.16,1.30)
Other	1.28	1.31	(0.36,4.79)
Other religion	0.94	1.05	(0.61,1.79)
Marital status (Single)	χ^2 (LRT)=11.21**	χ^2 (LRT)=5.11	
Married	2.41**	1.99	(1.07,3.71)
Widowed/Divorced/Separated	1.24	1.30	(0.46,3.67)
Family income (enough and have savings)	χ^2 (LRT)= 0.8447	χ^2 (LRT)=1.73	
Enough and no savings	0.96	0.91	(0.51,1.60)
Not enough and no debt	0.94	1.06	(0.36,3.15)
Not enough and have debt	0.71	0.59	(0.26,1.35)
Family history of cancer	0.41*	0.38*	(0.16,0.95)
Family history of BC	0.85	1.09	(0.21,5.78)

***P<0.001, **P<0.01, *P<0.05

Table S5 Unadjusted and Adjusted ORs for attitude to breast cancer prevention BCAS subscale. Categories in brackets represent the referent group.

Effects	OR unadjusted	ORadjusted	95%CI
Age 10yrs	1.01	1.04	(0.88,1.22)
Rural residence	0.75	0.60**	(0.41,0.87)
Education (Primary school and lower)	χ^2 (LRT)= 2.48	χ^2 (LRT)=5.66	
High School	1.21	1.42	(0.94,2.14)
Diploma or equal	1.50	1.83	(0.94,3.56)
Bachelor degree	1.23	1.83	(0.99,3.39)
Higher than Bachelor	1.01	1.17	(0.25,5.59)
Occupation (Agriculture)	χ^2 (LRT)= 5.76	χ^2 (LRT)=10.37	
Trader	1.24	1.07	(0.68,1.70)
Laborer	0.80	0.68	(0.40,1.16)
Government official	0.91	0.50	(0.24,1.07)
Unemployment	0.65	0.46*	(0.22,0.98)
Other	0.70	0.53	(0.25,1.13)
Other religion	1.07	1.12	(0.77,1.61)
Marital status (Single)	χ^2 (LRT)= 1.30	χ^2 (LRT)=0.81	
Married	1.27	1.24	(0.77,2.00)
Widowed/Divorced/Separated	1.07	1.28	(0.56,2.90)
Family income (enough and have savings)	χ^2 (LRT)=4.39	χ^2 (LRT)=6.61	
Enough and no savings	0.72	0.69	(0.47,1.01)
Not enough and no debt	1.15	1.43	(0.68,3.00)
Not enough and have debt	0.72	0.74	(0.41,1.31)
Family history of cancer	1.21	1.09	(0.67,1.78)
Family history of BC	2.50	2.40	(0.87,6.64)

***P<0.001, **P<0.01, *P<0.05

Table S6 Unadjusted and Adjusted ORs for barriers of breast screening BCAS subscale. Categories in brackets represent the referent group.

Effects	OR unadjusted	ORadjusted	95%CI
Age 10yrs	0.82**	0.76*	(0.64,0.91)
Rural residence	0.45***	0.56*	(0.37,0.84)
Education (Primary school and lower)	χ^2 (LRT)=11.55*	χ^2 (LRT)=14.94**	
High School	0.56**	0.44*	(0.28,0.68)
Diploma or equal	1.19	0.75	(0.37,1.52)
Bachelor degree	0.81	0.51	(0.26,1.01)
Higher than Bachelor	1.86	1.20	(0.24,5.94)
Occupation (Agriculture)	χ^2 (LRT)=19.66**	χ^2 (LRT)=6.83	
Trader	1.33	0.99	(0.60,1.63)
Laborer	3.02**	1.93*	(1.09,3.41)
Government official	1.52	1.16	(0.51,2.62)
Unemployment	1.77	1.47	(0.66,3.27)
Other	1.59	1.13	(0.49,2.57)
Other religion	1.28	1.30	(0.88,1.92)
Marital status (Single)	χ^2 (LRT)=0.31	χ^2 (LRT)=0.55	
Married	0.93	1.20	(0.72,2.00)
Widowed/Divorced/Separated	1.10	1.29	(0.55,3.02)
Family income (enough and have savings)	χ^2 (LRT)= 1.86	χ^2 (LRT)=3.69	
Enough and no savings	0.95	0.86	(0.57,1.29)
Not enough and no debt	0.58	0.47	(0.21,1.08)
Not enough and have debt	0.96	1.05	(0.57,1.93)
Family history of cancer	1.34	1.43	(0.86,2.37)
Family history of BC	1.29	1.10	(0.36,3.34)

***P<0.001, **P<0.01, *P<0.05