

Ebola vaccine? Family first! Evidence from using a brief measure on Ebola vaccine demand in a national household survey during the outbreak in Sierra Leone

SUPPLEMENTAL MATERIAL

Suppl. Table 1. Multilevel logistic regression model for expressing high demand for Ebola vaccine among respondents in a national household survey, Sierra Leone, December 2014

	Multivariable Model	
	aOR ‡ (95%CI)	P value †
Perceived first recipient		
<i>Politicians</i>	<i>Reference</i>	
Me/my family	13.0 (7.8-21.6)	0.000
Pregnant women	5.7 (1.9-17.5)	0.003
Children	4.7 (2.4-9.1)	0.000
People who live in worst affected areas	2.9 (1.7-5.1)	0.000
Healthcare workers/burial teams	2.0 (1.4-2.8)	0.000
Other	2.0 (0.9-4.2)	0.051
The team offering an Ebola vaccine	1.4 (0.9-2.1)	0.157
Geographic region		
<i>Western Area</i>	<i>Reference</i>	
North Province	1.4 (0.8-2.3)	0.188
Eastern Province	1.8 (0.9-3.4)	0.057
Southern Province	1.1 (0.5-2.5)	0.891
Gender		
<i>Male</i>	<i>Reference</i>	
Female	0.9 (0.8-1.1)	0.426
Age		
	1.0 (0.9-1.0)	0.242
Education		
<i>None</i>	<i>Reference</i>	
Primary	1.1 (0.8-1.5)	0.633
Secondary or higher	1.6 (1.2-2.1)	0.001
Religion		
<i>Islam</i>	<i>Reference</i>	
Christianity	1.0 (0.6-1.7)	0.881

N=3,290 respondents; 250 (7%) had one or more missing responses that were excluded

‡ Adjusted odds ratio (aOR) is adjusted for region of residence, sex, age, education, and religion

† Wald statistical p value from multiple logistic regression model

CI = confidence interval

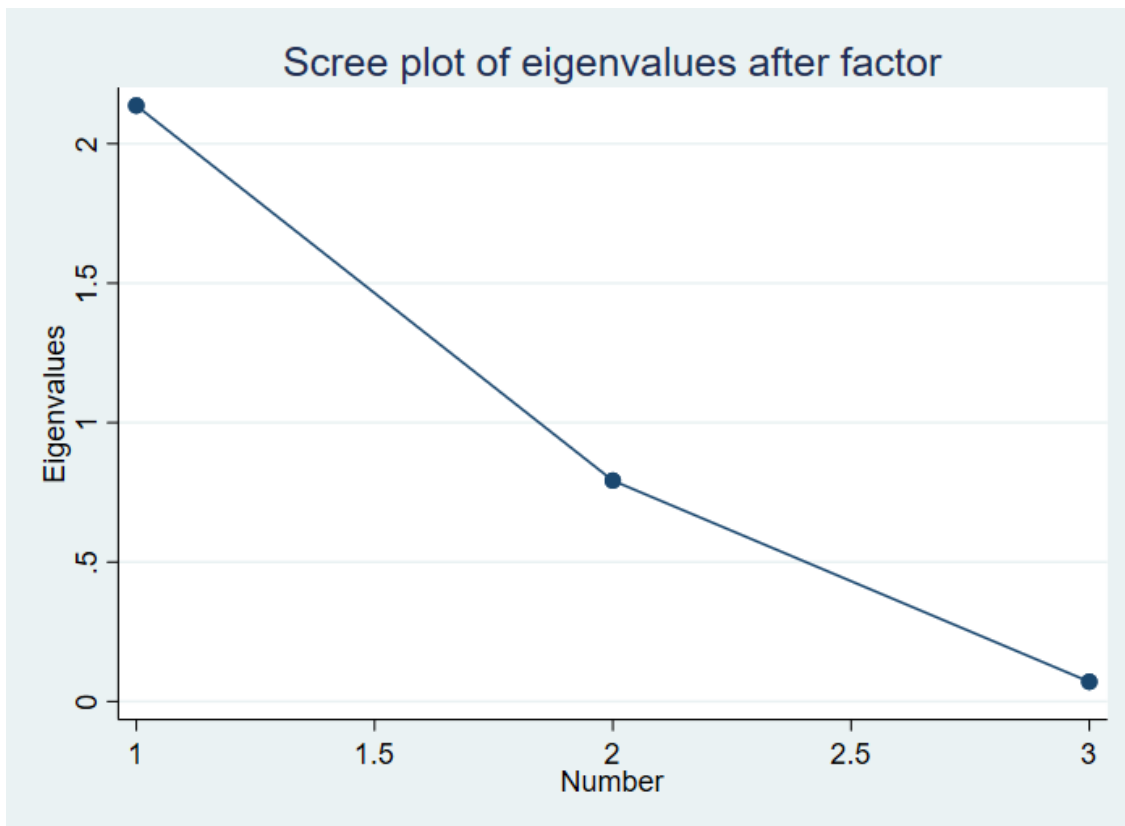
Suppl. Table 2. Reliability testing for ultra-brief measure of Ebola vaccine demand among respondents in a national household survey, Sierra Leone, December 2014

Item	Obs	Sign	item-test correlation	item-rest correlation	interitem correlation	alpha
vax_need	3479	+	0.7187	0.3774	0.9297	0.9636
vax_accept~f	3467	+	0.9224	0.8019	0.3375	0.5047
vax_accept~m	3435	+	0.9144	0.7763	0.3778	0.5484
Test scale					0.5491	0.7851

Suppl. Table 3. Eigenvalues and proportion of variance explained by extracted factors

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.13687	1.34469	0.7123	0.7123
Factor2	0.79218	0.72123	0.2641	0.9764
Factor3	0.07095	.	0.0236	1.0000

LR test: independent vs. saturated: $\chi^2(3) = 7168.34$ Prob> $\chi^2 = 0.0000$



Suppl. Figure 1. Scree plot from Exploratory Factor Analysis showing eigenvalues for the construct of high Ebola vaccine demand, Sierra Leone, December 2014