

ORIGINAL RESEARCH ARTICLE

The coverage of the second dose of the measles-containing vaccine: A cross-sectional survey in a rural health district of Cameroon

Supplementary Files

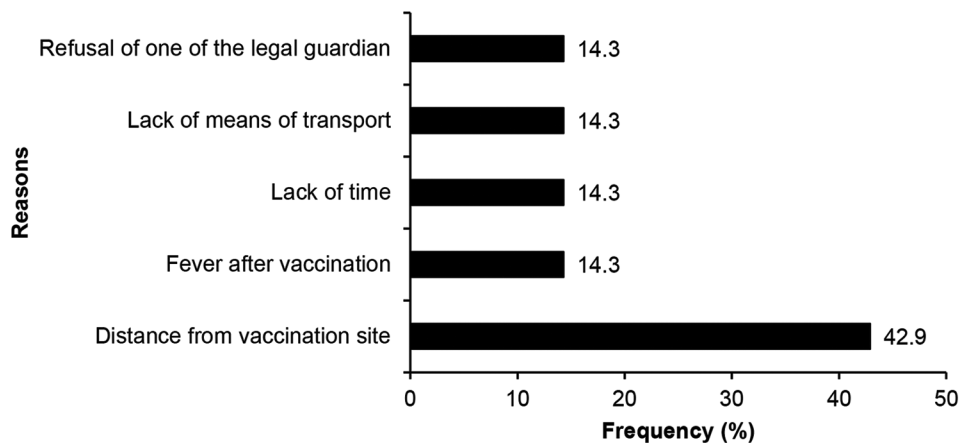


Figure S1. Reported reasons for not getting vaccinated according to community members in the Ngog-Mapubi Health District, Cameroon (n = 9)

Table S1. Reported vaccination coverage of the second dose of the measles-containing vaccine

Health area ¹	MRV2 vaccination uptake, n (%)	
	No n=75 (54)	Yes n=65 (46)
Bot Makak	10 (90.9)	1 (9.1)
Boumnyebel	18 (60.0)	12 (40.0)
Dibang	4 (40.0)	6 (60.0)
Hegba	1 (10.0)	9 (90.0)
Mandoumba	6 (54.5)	5 (45.5)
Matomb	3 (60.0)	2 (40.0)
Mbanda	3 (60.0)	2 (40.0)
Kikot-Mbebe	3 (100.0)	0 (0.0)
Mintaba	3 (60.0)	2 (40.0)
Ndongo	5 (41.7)	7 (58.3)
Ngog-Mapubi	5 (35.7)	9 (64.3)
Nguibassal	2 (22.2)	7 (77.8)
Ntouleng	10 (90.9)	1 (9.1)
Sombo	2 (50.0)	2 (50.0)

Note: ¹Fisher exact probability test (p=0.005).

Abbreviation: MRV2: The second dose of the measles-containing vaccine.

Table S2. Reported vaccination acceptance of the second dose of the measles-containing vaccine

Health area ¹	MRV2 vaccination acceptance, n (%)	
	No n=11 (15)	Yes n=64 (85)
Bot Makak	0 (0.0)	10 (100.0)
Boumnyebel	3 (16.7)	15 (83.3)
Dibang	1 (25.0)	3 (75.0)
Hegba	1 (100.0)	0 (0.0)
Mandoumba	0 (0.0)	6 (100.0)
Matomb	0 (0.0)	3 (100.0)
Mbanda	0 (0.0)	3 (100.0)
Kikot-Mbebe	0 (0.0)	3 (100.0)
Mintaba	0 (0.0)	3 (100.0)
Ndongo	0 (0.0)	5 (100.0)
Ngog-Mapubi	2 (40.0)	3 (60.0)
Nguibassal	2 (100.0)	0 (0.0)
Ntouleng	2 (20.0)	8 (80.0)
Sombo	0 (0.0)	2 (100.0)

Note: ¹Fisher exact probability test (p=0.047).

Abbreviation: MRV2: The second dose of the measles-containing vaccine.

Table S3. Reported compliance with the routine immunization program among health areas

Health area ¹	Adherence to the EPI program, n (%)	
	No n=9 (6)	Yes n=131 (94)
Bot Makak	1 (9.1)	10 (90.9)
Boumnyebel	2 (6.7)	28 (93.3)
Dibang	0 (0.0)	10 (100.0)
Hegba	0 (0.0)	10 (100.0)
Mandoumba	0 (0.0)	11 (100.0)
Matomb	0 (0.0)	5 (100.0)
Mbanda	0 (0.0)	5 (100.0)
Kikot-Mbebe	0 (0.0)	3 (100.0)
Mintaba	0 (0.0)	5 (100.0)
Ndongo	3 (25.0)	9 (75.0)
Ngog-Mapubi	1 (7.1)	13 (92.9)
Nguibassal	2 (22.2)	7 (77.8)
Ntouleng	0 (0.0)	11 (100.0)
Sombo	0 (0.0)	4 (100.0)

Note: ¹Fisher exact probability test ($p=0.481$).

Abbreviations: EPI: Expanded program on immunization; MRV2: The second dose of the measles-containing vaccine.

Table S4. Reported exposure to the communication channels of the second dose of the measles-containing vaccine

Health area ¹	Ever heard about MRV2, n (%)	
	No n=15 (11)	Yes n=125 (89)
Bot Makak	4 (36.4)	7 (63.6)
Boumnyebel	3 (10.0)	27 (90.0)
Dibang	0 (0.0)	10 (100.0)
Hegba	1 (10.0)	9 (90.0)
Mandoumba	1 (9.1)	10 (90.9)
Matomb	1 (20.0)	4 (80.0)
Mbanda	0 (0.0)	5 (100.0)
Kikot-Mbebe	2 (66.7)	1 (33.3)
Mintaba	0 (0.0)	5 (100.0)
Ndongo	0 (0.0)	12 (100.0)
Ngog-Mapubi	1 (7.1)	13 (92.9)
Nguibassal	0 (0.0)	9 (100.0)
Ntouleng	1 (9.1)	10 (90.9)
Sombo	1 (25.0)	3 (75.0)

Note: ¹Fisher exact probability test ($p=0.062$).

Abbreviation: MRV2: The second dose of the measles-containing vaccine.

Table S5. Reported exposure to the communication channels of the second dose of the measles-containing vaccine

Characteristic	Ever heard about MRV2, n (%)		p-value ¹
	No n=15 (11)	Yes n=125 (89)	
Age group (years)			>0.999
<20	0 (0.0)	7 (100.0)	
20–29	7 (11.9)	52 (88.1)	
30–39	6 (10.7)	50 (89.3)	
40+	2 (11.1)	16 (88.9)	
Sex			>0.999
Female	13 (10.9)	106 (89.1)	
Male	2 (9.5)	19 (90.5)	
Education level			0.104
None	4 (25.0)	12 (75.0)	
Primary	5 (15.6)	27 (84.4)	
Secondary	6 (6.9)	81 (93.1)	
Tertiary	0 (0.0)	5 (100.0)	
Marital status			0.360
Single	7 (12.3)	50 (87.7)	
Cohabitation	5 (8.6)	53 (91.4)	
Married	2 (8.7)	21 (91.3)	
Widow (er)	1 (50.0)	1 (50.0)	
Household members surveyed			0.118
Grandmother	1 (100.0)	0 (0.0)	
Mother	12 (10.2)	106 (89.8)	
Father	2 (9.5)	19 (90.5)	
Distance to the nearby health facility (km)			0.104
0–5	6 (7.1)	78 (92.9)	
6+	9 (16.1)	47 (83.9)	
Ethnic group			0.062
Other tribes	5 (22.7)	17 (77.3)	
Local tribe	10 (8.5)	108 (91.5)	
Occupation			0.879
Civil servant	0 (0.0)	6 (100.0)	
Farmer	2 (8.3)	22 (91.7)	
Housekeeper	8 (10.4)	69 (89.6)	
Other	1 (11.1)	8 (88.9)	
Shopkeeper	2 (16.7)	10 (83.3)	
Student	2 (16.7)	10 (83.3)	
Average monthly income (XAF)			0.725
<50,000	14 (11.6)	107 (88.4)	
50,000–150,000	1 (5.6)	17 (94.4)	
>150,000	0 (0.0)	1 (100.0)	

Note: ¹Fisher exact probability test.

Abbreviations: MRV2: The second dose of the measles-containing vaccine; XAF: Central African CFA francs.

Table S6. Knowledge profile of community members regarding the second dose of the measles-containing vaccine

Characteristic	Good knowledge, <i>n</i> (%)		<i>p</i> -value ¹
	No <i>n</i> =114 (81)	Yes <i>n</i> =26 (19)	
Health area			
Bot Makak	10 (90.9)	1 (9.1)	-
Boumnyebel	28 (93.3)	2 (6.7)	-
Dibang	6 (60.0)	4 (40.0)	-
Hegba	3 (30.0)	7 (70.0)	-
Mandoumba	10 (90.9)	1 (9.1)	-
Matomb	5 (100.0)	0 (0.0)	-
Mbanda	0 (0.0)	5 (100.0)	-
Kikot-Mbebe	3 (100.0)	0 (0.0)	-
Mintaba	5 (100.0)	0 (0.0)	-
Ndongo	12 (100.0)	0 (0.0)	-
Ngog-Mapubi	12 (85.7)	2 (14.3)	-
Nguibassal	9 (100.0)	0 (0.0)	-
Ntouleng	9 (81.8)	2 (18.2)	-
Sombo	2 (50.0)	2 (50.0)	-
Distance to the nearby health facility (km)			0.659
0–5	67 (79.8)	17 (20.2)	
6+	47 (83.9)	9 (16.1)	
Age group (years)			0.827
<20	6 (85.7)	1 (14.3)	
20–29	50 (84.7)	9 (15.3)	
30–39	44 (78.6)	12 (21.4)	
40+	14 (77.8)	4 (22.2)	
Sex			0.544
Female	98 (82.4)	21 (17.6)	
Male	16 (76.2)	5 (23.8)	

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Table S6. (Continued)

Characteristic	Good knowledge, <i>n</i> (%)		<i>p</i> -value ¹
	No <i>n</i> =114 (81)	Yes <i>n</i> =26 (19)	
Marital status			0.896
Single	46 (80.7)	11 (19.3)	
Cohabitation	48 (82.8)	10 (17.2)	
Married	18 (78.3)	5 (21.7)	
Widow (er)	2 (100.0)	0 (0.0)	
Education level			0.097
None	15 (93.8)	1 (6.3)	
Primary	29 (90.6)	3 (9.4)	
Secondary	65 (74.7)	22 (25.3)	
Tertiary	5 (100.0)	0 (0.0)	
Occupation			0.694
Civil servant	5 (83.3)	1 (16.7)	
Farmer	19 (79.2)	5 (20.8)	
Housekeeper	64 (83.1)	13 (16.9)	
Other	7 (77.8)	2 (22.2)	
Shopkeeper	8 (66.7)	4 (33.3)	
Student	11 (91.7)	1 (8.3)	
Household members surveyed			0.372
Grandmother	1 (100.0)	0 (0.0)	
Mother	98 (83.1)	20 (16.9)	
Father	15 (71.4)	6 (28.6)	
Number of children			0.762
0–3	43 (84.3)	8 (15.7)	
3–5	43 (81.1)	10 (18.9)	
5–8	28 (77.8)	8 (22.2)	
Number of 15–23-month-old children			>0.999
0–1	102 (81.0)	24 (19.0)	
2+	12 (85.7)	2 (14.3)	

Note: ¹Fisher exact probability test.