

Immunization performance/quality and associated factors among children aged 0 to 23 months: a cross-sectional survey in the Baham Health District, West Region, Cameroon

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Available online: <https://www.panafrican-med-journal.com/content/article/54//full/>

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Annex 1: vaccination coverage among children aged 0 to 23 months in the Baham health district in 2023

Contacts	Antigens	Eligible children	Number vaccinated	% vaccinated
At birth	BCG		392	93.6
	OPV0	419	399	95.2
Week 6	PENTA 1		312	95.7
	PCV1		308	94.5
	ROTA 1	326	307	94.2
	OPV1		312	95.7
Week 10	PENTA 2		242	90.6
	PCV2		26	9.7
	OPV2	267	242	90.6
	ROTA 2		221	82.8
Week 14	PENTA 3		177	87.6
	PCV3		175	86.6
	OPV3	202	176	87.1
	ROTA 3		10	4.9
9 months	MCV1		65	84.4
	YF	116	63	81.8
15 months	MCV2	13	9	69.2

BCG = Bacillus Calmette–Guérin vaccine, against tuberculosis; OPV0 = Oral polio vaccine, zero dose (birth dose given within the first 14 days of life); OPV1/2/3 = Oral polio vaccine, 1st/2nd/3rd doses; Penta1/2/3 = Pentavalent vaccine (diphtheria, tetanus, pertussis, hepatitis B, and Haemophilus influenzae type b), 1st/2nd/3rd doses; PCV1/2/3 = Pneumococcal conjugate vaccine, 1st/2nd/3rd doses; Rota1/2 = Rotavirus vaccine, 1st/2nd doses; MCV/2 = Measles–rubella vaccine, 1st/2nd doses; YF = Yellow fever vaccine

Annex 2: distribution of sample sizes across surveyed health facilities in the BHD, 2023

Health facility name	Expected size	Observed sample	%observed
Bangou town clinic	13	11	2.6
<i>La Life plus</i> Clinic	13	16	3.8
DMC <i>Bangou Carrefour</i>	13	25	6.0
DMC Bangou town	13	9	2.1
DMC Batié	20	20	4.8
PMC Batié	20	59	14.1
Medical Complex of Bangou	13	6	1.4
HF <i>de l'endurance</i>	13	13	3.1
IHC AD LUCEM Baham	16	20	4.8
IHC AD LUCEM Bangou town	13	10	2.4
IHC Bahiala	20	14	3.3
IHC Bandenkop	10	10	2.4
IHC Bangou chefferie	13	3	.7
IHC Bapa	10	14	3.3
IHC Bapi-kamsim	17	17	4.1
IHC Batié Bahiala	20	13	3.1
IHC Cheffou	14	14	3.3
IHC Chengne	17	7	1.7
IHC Demgo	16	10	2.4
IHC EEC Baham	16	8	1.9
IHC Medjo	14	10	2.4
IHC Ngougoua	26	22	5.3
IHC Ste Marie Thérèse Baham	16	32	7.6
PMC Badenkop	10	13	3.1
Baham HD	16	43	10.3
Total		419	100.0

BHD=Baham Health District ; DMC = District Medical Center; PMC = Protestant Medical Center; IHC = Integrated Health Center ; DH=district hospital ; HF=health facility

Annex 3: vaccination timeliness among children aged 0 to 23 months in the BHD in 2023							
Vaccine	Early	On time	Late	N	%Early	%On time	%Late
BCG	1	81	311	393	0.25	20.61	79.13
OPV0	1	96	301	398	0.25	24.12	75.63
MCV1	4	51	12	67	5.97	76.12	17.91
YF	4	51	9	64	6.25	79.69	14.06
ROTA1	45	220	35	300	15	73.33	11.67
ROTA2	18	165	44	227	7.93	72.69	19.38
PENTA1	49	244	33	326	15.03	74.85	10.12
PENTA2	19	183	42	244	7.79	75	17.21
PENTA3	10	128	41	179	5.59	71.51	22.91
OPV1	49	241	36	326	15.03	73.93	11.04
OPV2	19	183	43	245	7.76	74.69	17.55
OPV3	10	127	41	178	5.62	71.35	23.03
PCV1	50	243	33	326	15.34	74.54	10.12
PCV2	19	183	42	244	7.79	75	17.21
PCV3	12	126	42	180	6.67	70	23.33
VitaA	17	62	13	92	18.48	67.39	14.13

BCG = Bacillus Calmette–Guérin vaccine, against tuberculosis; Polio 0=OPV0 = Oral polio vaccine, zero dose (birth dose given within the first 7 days of life); Polio 1/2/3=OPV1/2/3 = Oral polio vaccine, 1st/2nd/3rd doses; Penta1/2/3 = Pentavalent vaccine (diphtheria, tetanus, pertussis, hepatitis B, and Haemophilus influenzae type b), 1st/2nd/3rd doses; Pneumo1/2/3=PCV1/2/3 = Pneumococcal conjugate vaccine, 1st/2nd/3rd doses; Rota1/2 = Rotavirus vaccine, 1st/2nd doses; IPV=Injected Polio Vaccine ; MCV1/2=MR1/2 = Measles–rubella vaccine, 1st/2nd doses; YF = Yellow fever vaccine ; vitaA=vitamine A at 6 months