Bagmati Province Routine immunization monitoring update from 2018 to 2023

Routine Immunization Independent monitoring is conducted through SMOs and trained monitors to provide real-time data for evidence-based interventions at appropriate administrative levels. This monitoring also identifies children who have missed routine vaccinations due to any cause and refers them to the nearest center for complete vaccination. This monitoring has been a continuous activity in Nepal since 2018. Till Aug 2023, 553, session sites and 699 health facilities in 13 districts were monitored using structured checklists. About 8133 children in 974 high-risk communities were monitored out of which 7735(95%) were age-appropriately immunized.

Age-appropriate vaccination status (%) among children aged 6 weeks to 59 months in community found during Quick Immunization Assessment(2018-2022)

712 community

6104 children

5827 children

Number of age appropriately unimmunized children

- 1 - 4
- 5 - 24
- 25 - 49
- 50 - 74
- 75 and more

Age appropriately immunized

- less than 60%
- 60% - 79%
- 80% - 89%
- 90 and more

2018	2019	2020	2021	2022	2023
Y=88% N=22%	Y=94% N=6%	Y=95% N=5%	Y=96% N=4%	Y=96% N=4%	Y=94% N=6%

Reason category for not receiving age-appropriate vaccination(2018-2022)

Child Vaccination Card Available(2018-2022)

Mother/caregiver knows vaccines due for next visit & date, day, and place of session(2018-2022)

Child vaccination card status and reasons(2018-2022)

Reason	#	%
1 - not received	14	10%
2 - Lost	106	75%
3 - Torn	13	9%
4 - Others	8	6%
Total	141	100%

Category	Reason	2018		2019		2020		2021		2022		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
Service Delivery	1a. Vaccination site too far	0	0	5	3	1	0	0	0	1	1	7	1
	1b. Vaccinator not available	0	0	4	2	1	0	0	0	1	1	6	1
	1c.Vaccines not available	7	5	22	13	0	0	14	8	4	4	47	8
	1d.Syringes or other supplies not available		0		0		0		0		0	0	0
	1e. Immunization session not conducted		0		0		0		0	3	3	3	1
	1f. Immunization session conducted but not regularly according to schedule		0		0		0		0		0	0	0
	1g.Working or busy parents		0		0		0		0	5	5	5	1
	1h.Not good experience with services (services, long waiting time, health workers' behaviour, immunization session site location etc.)		0		0		0		0		0	0	0
	1i. Migration/mobile population (Example: seasonal migration, ethnic group migration, construction workers etc.)		0		0		0		0	6	7	6	1
	1j.Displaced population (refugee,IDP,flood victims or disaster victims)		0		0		0		0		0	0	0
Knowledge Gap	2a.Mother does not know total no. of contact for complete immunization	16	11	11	7	0	0	0	0	7	8	34	6
	2b.Mother does not know the age for vaccination of different vaccine	26	18	19	11	0	0	1	1	25	27	71	12
	2c.Mother does not know immunization session site		0		0		0		0	4	4	4	1
Service Uptake	3a.Child not at home	2	1	12	7	1	0	1	1	3	3	19	3
	3b.Child sick	6	4	25	15	2	0	4	2	41	45	78	13
	3c.Fear of AEFI (any AEFI or fever or pain)	1	1	1	1	0	0	0	0	1	1	3	1
	3d.Thinking will go later		0		0		0		0	8	9	8	1
	3e.Fear of multiple injections		0		0		0		0		0	0	0
	3f.Past history of AEFI		0		0		0		0		0	0	0
	3g.No belief in vaccine	0	0	16	10	0	0	0	0		0	16	3
	3h.Religious	0	0	0	0	1	0	0	0		0	1	0
	3i.Fear of getting infected with COVID-19 at immunization session site		0		0		0		0		0	0	0
	3j.Undecided (Can not decide whether vaccine is needed or not)		0		0		0		0		0	0	0
	3k.Complete refusal to vaccinate		0		0		0		0		0	0	0
Other	4 - Others	13	9	19	11	0	0	2	1	2	2	36	6
	Reason Unknown		0		0		0		0	4	4	4	1
Bagmati Province		**71**	**100**	**134**	**100**	**6**	**0**	**22**	**100**	**115**	**100**	**348**	**100**

Routine immunization monitoring update 2023

In 2023, 10 districts (17 visits), 138 health facilities (146 visits), 82 session sites (83 visits) and 262 high risk communities were monitored. About 2029 children aged 6 weeks to 59 months were monitored out of which 1908 (94%) children were found to be age-appropriately vaccinated.

District Checklist

Findings

District	District visited	Total visits	District has updated district micro plan as per nes local administrative structure		District update vaccine and logistic control register at the end of immunization sessions for last month		Adequate stock of all vaccines , syringes for last 3 months	
			Yes (#)	Yes (%)	Yes (#)	Yes (%)	Yes (#)	Yes (%)
Bhaktapur	1	1	1	100	1	100	1	100
Chitwan	1	2	1	100	1	100	1	100
Dhading	-	-	-	-	-	-	-	-
Dolkha	-	-	-	-	-	-	-	-
Kathmandu	1	1	-	-	1	100	1	100
Kavre	1	5	1	100	1	100	1	100
Lalitpur	1	1	-	-	1	100	1	100
Makwanpur	-	-	-	-	-	-	-	-
Nuwakot	1	1	-	-	1	100	1	100
Ramechhap	1	1	1	100	1	100	1	100
Rasuwa	1	1	-	-	1	100	1	100
Sindhuli	1	1	-	-	1	100	1	100
Sindhupalchok	1	3	1	100	1	100	1	100
Bagmati	10	17	5	50	10	100	10	100

Health Facility

46 vaccine substore were visited 50 times,98% adequate supply of vaccine and syringes for last 3 months

District	No HF visited	Total visits	Health facility got adequately bundled vaccines, diluents, syringes and safety boxes		Health facility updated micro-plan as per new local administrative structure (inclusion of HTR population and area from palika)		Health facility initiated for 'full immunization' and sustainability plan if already declared fully immunized		Health facility conducted all sessions (out reach, fixed and mobile) as planned	
			Yes (#)	Yes (%)	Yes (#)	Yes (%)	Yes (#)	Yes (%)	Yes (#)	Yes (%)
Bhaktapur	31	31	31	100	28	90	20	65	14	45
Chitwan	3	3	0	0	0	0	0	0	-	-
Dhading	13	17	13	100	11	85	11	85	13	100
Dolkha	-	-	-	-	-	-	-	-	-	-
Kathmandu	37	40	37	100	27	73	31	84	35	95
Kavre	2	2	2	100	-	-	-	-	2	100
Lalitpur	13	13	13	100	12	92	10	77	13	100
Makwanpur	1	1	0	0	0	0	0	0	-	-
Nuwakot	15	16	15	100	15	100	15	100	15	100
Ramechhap	2	2	2	100	1	50	2	100	2	100
Rasuwa	15	15	15	100	14	93	15	100	15	100
Sindhuli	4	4	4	100	-	-	-	-	4	100
Sindhupalchok	2	2	2	100	-	-	1	50	2	100
Bagmati	**138**	**146**	**134**	**97**	**108**	**78**	**105**	**76**	**115**	**83**

Status of immunization card

Session Site

Findings

District	Health facilities visited	No. of sessons visit	Name list of children (expected and missed for earlier session) for this session available		Supply of vaccine doses , syringes, diluent and safety boxes matches with session targets		Vaccinator notes date & time of re-constitution for BCG, MR and JE vaccines		FCHV knows the ages for vaccination with different vaccines as per immunization schedule		Mothers/guardians are informed about next dose visits	
			Yes (#)	Yes (%)	Yes (#)	Yes (%)	Yes (#)	Yes (%)	Yes (#)	Yes (%)	Yes (#)	Yes (%)
Bhaktapur	30	30	30	100	29	97	30	100	14	47	30	100
Chitwan	1	1	-	-	1	100	1	100	-	-	1	100
Dhading	1	1	-	-	1	100	-	-	-	-	1	100
Dolkha	-	-	-	-	-	-	-	-	-	-	-	-
Kathmandu	36	37	33	89	37	100	35	95	35	95	36	97
Kavre	3	3	-	-	3	100	1	33	-	-	3	100
Lalitpur	10	10	5	50	10	100	9	90	7	70	10	100
Makwanpur	1	1	-	-	1	100	-	-	-	-	1	100
Nuwakot	-	-	-	-	-	-	-	-	-	-	-	-
Ramechhap	-	-	-	-	-	-	-	-	-	-	-	-
Rasuwa	-	-	-	-	-	-	-	-	-	-	-	-
Sindhuli	-	-	-	-	-	-	-	-	-	-	-	-
Sindhupalchok	-	-	-	-	-	-	-	-	-	-	-	-
Bagmati	82	83	68	82	82	99	76	92	56	67	82	99

Independent monitors conducting Rapid convenient monitoring in different communities

Age-appropriate vaccination status (%) among children aged 6 weeks to 59 months in the community found during Quick Immunization Assessment, Jan to Dec 2023

District	Total Communities	Total Children	Yes (N)	Yes (%)
Bhaktapur	38	300	278	93
Chitwan	53	329	286	87
Dhading	25	175	174	99
Dolkha	2	8	8	100
Kathmandu	42	374	350	94
Kavre	1	7	7	100
Lalitpur	24	181	168	93
Makwanpur	34	325	315	97
Nuwakot	20	160	160	100
Ramechhap	-	-	-	-
Rasuwa	23	170	162	95
Sindhuli	-	-	-	-
Sindhupalchok	-	-	-	-
Province 3	**262**	**2029**	**1908**	**94**

Data consist of quick immunization monitoring done in measles outbreak districts too

Quick immunization assessment is conducted in each community in 5-10 eligible children or more. Therefore, the age-appropriate vaccination % given in the map only reflects the % among the children assessed in the communities and not the whole palika or municipality.

For not receiving age-appropriate vaccinations

Reason Category	Reason	Prov3	
		#	%
Service Delivery	1a. Vaccination site too far	0	0
	1b. Vaccinator not available	0	0
	1c.Vaccines not available	1	1
	1d.Syringes or other supplies not available	0	0
	1e. Immunization session not conducted	0	0
	1f. Immunization session conducted but not regularly according to schedule	0	0
	1g.Working or busy parents	7	6
	1h.Not good experience with services (services, long waiting time, health workers' behaviour, immunization session site location etc.)	1	1
	1i. Migration/mobile population (Example: seasonal migration, ethnic group migration, construction workers etc.)	0	0
	1i. Migration-mobile population (Example: seasonal migration, ethnic group migration, construction workers etc.)	5	4
	1j.Displaced population (refugee,IDP,flood victims or disaster victims)	1	1
Knowledge Gap	2a.Mother does not know total no. of contact for complete immunization	14	12
	2b. Mother does not know the age for vaccination of different vaccine	15	12
	2c. Mother does not know immunization session site	4	3
Service Uptake	3a. Child not at home	8	7
	3b. Child sick	35	29
	3c. Fear of AEFI (any AEFI or fever or pain)	0	0
	3d. Thinking will go later	12	10
	3e. Fear of multiple injections	1	1
	3f. Past history of AEFI	0	0
	3g. No belief in vaccine	0	0
	3h.Religious	1	1
	3i.Fear of getting infected with COVID-19 at immunization session site	0	0
	3j. Undecided (Can not decide whether vaccine is needed or not)	2	2
	3k.Complete refusal to vaccinate	0	0
Others	Other	12	10
	Reason unknown	2	2
Total		121	100