Madhesh 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 Dec 2023, 993 session sites and 951 health facilities in 8 districts were monitored using structured checklists. About 10485 children in 899 high-risk communities were monitored out of which 8142 (78%) 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)

765 community

9004 children

7040 children

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	1	1%
2 - Lost	85	78%
3 - Torn	1	1%
4 - Others	22	20%
Total	109	100%

Category	Reason	2018		2019		2020		2021		2022		Total	
		#	%	#	%	#	%	#	%	#	%	#	%
Service Delivery	1a. Vaccination site too far	9	6	4	2	0	0	0	0	3	3	16	3
	1b. Vaccinator not available	22	16	19	11	0	0	0	0	6	7	47	8
	1c.Vaccines not available	445	316	137	82	1	0	396	218	192	209	1171	201
	1d.Syringes or other supplies not available	0	0	0	0	0	0	4	2		0	4	1
	1e. Immunization session not conducted	0	0	0	0	0	0	3	2	6	7	9	2
	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	0	0	2	1	2	2	4	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	1	1	1	0
	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	61	43	95	57	6	0	39	21	5	5	206	35
	2b.Mother does not know the age for vaccination of different vaccine	123	87	162	97	9	0	48	26	20	22	362	62
	2c.Mother does not know immunization session site	0	0	0	0	0	0	1	1	4	4	5	1
Service Uptake	3a.Child not at home	80	57	144	86	1	0	161	88	106	115	492	85
	3b.Child sick	54	38	119	71	0	0	47	26	52	57	272	47
	3c.Fear of AEFI (any AEFI or fever or pain)	8	6	3	2	0	0	0	0	13	14	24	4
	3d.Thinking will go later	0	0	0	0	0	0	2	1	21	23	23	4
	3e.Fear of multiple injections	0	0	0	0	0	0	7	4	10	11	17	3
	3f.Past history of AEFI	0	0	0	0	0	0	2	1		0	2	0
	3g.No belief in vaccine	3	2	6	4	0	0	1	1	1	1	11	2
	3h.Religious	1	1	3	2	0	0	1	1	2	2	7	1
	3i.Fear of getting infected with COVID-19 at immunization session site	0	0	0	0	0	0	1	1		0	1	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	3	2		0	3	1
Other	4 - Others	30	21	32	19	5	0	33	18		0	100	17
	Reason Unknown		0		0		0		0	23	25	23	4
Madhesh Province		**836**	**100**	**724**	**100**	**22**	**0**	**751**	**100**	**467**	**100**	**2800**	**100**

Routine immunization monitoring update 2023

In 2023, 8 districts (42 visits), 161 health facilities (168 visits), 138 session sites (154 visits) 1481 children and 116 high risk communities were monitored. About 1481 children aged 6 weeks to 59 months were monitored out of which 1102 (74%) children were found to be age-appropriately vaccinated.

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 (%)
Bara	15	190	138	73
Dhanusa	6	78	44	69
Mahottari	19	268	184	74
Parsa	17	190	172	91
Rautahat	26	314	251	80
Saptari	3	69	46	91
Sarlahi	22	207	181	68
Siraha	8	105	86	98
Province 2	**116**	**1481**	**1102**	**74**

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.

District Checklist

Findings

District	District visited	Total visits	District has updated district micro plan as per nes local administrative structure: Yes (#)	Yes (%)	District update vaccine and logistic control register at the end of immunization sessions for last month: Yes (#)	Yes (%)	Adequate stock of all vaccines , syringes for last 3 months: Yes (#)	Yes (%)
Bara	1	7	-	-	1	100	-	-
Dhanusa	1	7	-	-	1	100	-	-
Mahottari	1	6	-	-	1	100	-	-
Parsa	1	7	1	100	1	100	1	100
Rautahat	1	4	-	-	1	100	-	-
Saptari	1	5	-	-	1	100	-	-
Sarlahi	1	3	1	100	1	100	-	-
Siraha	1	3	1	100	1	100	1	100
Madhesh	8	42	3	38	8	100	2	25

Health Facility

36 vaccine substore were visited 39 times,75% adequate supply of vaccine and syringes for last 3

District	No HF visited	Total visits	Health facility got adequately bundled vaccines, diluents, syringes and safety boxes: Yes (#)	Yes (%)	updated micro-plan as per new local administrative structure (inclusion of HTR population and area from palika): Yes (#)	Yes (%)	Health facility initiated for 'full immunization' and sustainability plan if already declared fully immunized: Yes (#)	Yes (%)	Health facility conducted all sessions (out reach, fixed and mobile) as planned: Yes (#)	Yes (%)
Bara	23	24	21	91	20	87	20	87	22	96
Dhanusa	21	21	6	29	6	29	7	33	7	33
Mahottari	19	21	6	32	4	21	6	32	7	37
Parsa	19	19	17	89	18	95	16	84	19	100
Rautahat	28	29	25	89	22	79	16	57	26	93
Saptari	9	9	9	100	9	100	8	89	9	100
Sarlahi	33	36	22	67	26	79	31	94	31	94
Siraha	9	9	8	89	5	56	7	78	8	89
Madhesh	**161**	**168**	**114**	**71**	**110**	**68**	**111**	**69**	**129**	**80**

Status of immunization card

For not receiving age-appropriate vaccinations

Reason Category	Reason	Prov2 #	Prov2 %
Service Delivery	1a. Vaccination site too far	5	1
	1b. Vaccinator not available	12	3
	1c.Vaccines not available	78	21
	1d.Syringes or other supplies not available	14	4
	1e. Immunization session not conducted	3	1
	1f. Immunization session conducted but not regularly according to schedule	0	0
	1g.Working or busy parents	6	2
	1h.Not good experience with services (services, long waiting time, health workers' behaviour, immunization session site location etc.)	1	0
	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.)	9	2
	1j.Displaced population (refugee,IDP,flood victims or disaster victims)	0	0
Knowledge Gap	2a.Mother does not know total no. of contact for complete immunization	15	4
	2b. Mother does not know the age for vaccination of different vaccine	27	7
	2c. Mother does not know immunization session site	1	0
Service Uptake	3a. Child not at home	107	28
	3b. Child sick	33	9
	3c. Fear of AEFI (any AEFI or fever or pain)	16	4
	3d. Thinking will go later	20	5
	3e. Fear of multiple injections	4	1
	3f. Past history of AEFI	0	0
	3g. No belief in vaccine	3	1
	3h.Religious	0	0
	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)	4	1
	3k.Complete refusal to vaccinate	2	1
Others	Other	0	0
	Reason unknown	18	5
Total		378	100

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: Yes (#)	Yes (%)	Supply of vaccine doses , syringes, diluent and safety boxes matches with session targets: Yes (#)	Yes (%)	Vaccinator notes date & time of re-constitution for BCG, MR and JE vaccines: Yes (#)	Yes (%)	FCHV knows the ages for vaccination with different vaccines as per immunization schedule: Yes (#)	Yes (%)	Mothers/guardians are informed about next dose visits: Yes (#)	Yes (%)
Bara	19	20	20	100	18	90	17	85	19	95	19	95
Dhanusa	15	23	20	87	15	65	9	39	17	74	23	100
Mahottari	11	14	14	100	9	64	11	79	14	100	14	100
Parsa	17	17	15	88	16	94	16	94	16	94	17	100
Rautahat	24	24	21	88	12	50	23	96	16	67	24	100
Saptari	9	9	9	100	9	100	8	89	9	100	9	100
Sarlahi	35	39	38	97	19	49	39	100	36	92	39	100
Siraha	8	8	8	100	6	75	8	100	7	88	8	100
Madhesh	138	154	145	94	104	68	131	85	134	87	153	99

Independent monitors conducting Rapid convenient monitoring in different communities