



# Routine Immunization Update of Nepal National level

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Update for Jan to Dec 2021

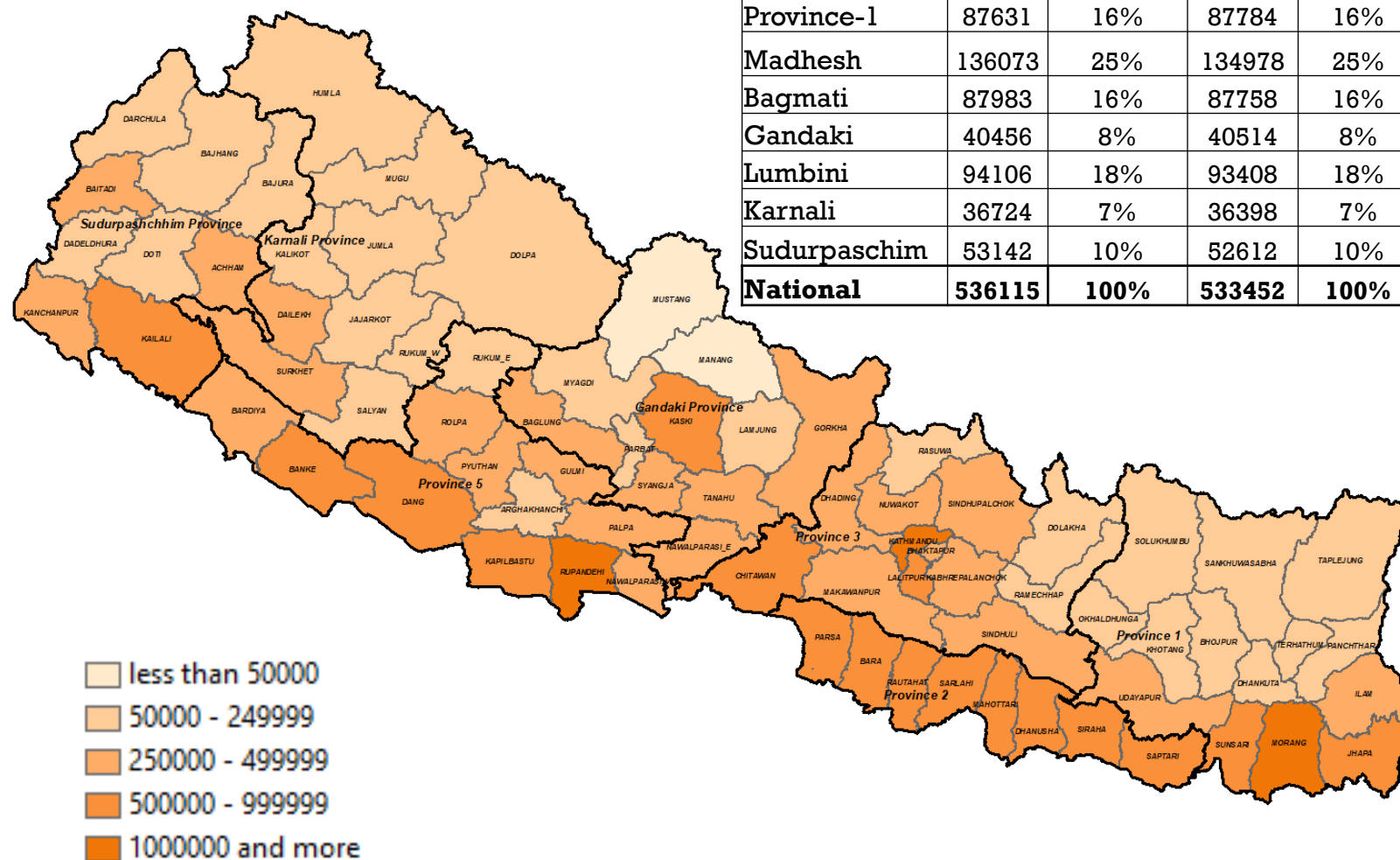
# Country basic information and population by district and province

## Basic information

Total population <sup>1</sup>	29,859,005
Live births <sup>1</sup>	547,839
Children <1 year <sup>1</sup>	536,330
Children <5 years <sup>1</sup>	2,705,186
Children <15 years <sup>1</sup>	8,085,606
Pregnant women <sup>1</sup>	667,710
Women of childbearing age <sup>1</sup>	6,794,676
Neonatal mortality rate <sup>2</sup>	21.1 (per 1,000 LB)
Infant mortality rate <sup>2</sup>	32.0 (per 1,000 LB)
Under-five mortality rate <sup>2</sup>	39.0 (per 1,000 LB)
Maternal mortality ratio <sup>2</sup>	239 (per 100,000 LB)
Province	7
District	77

<sup>1</sup> HMIS 2078/79

<sup>2</sup> NDHS 2016



Province	<12 months pop		12-23 months pop	
	#	%	#	%
Province-1	87631	16%	87784	16%
Madhesh	136073	25%	134978	25%
Bagmati	87983	16%	87758	16%
Gandaki	40456	8%	40514	8%
Lumbini	94106	18%	93408	18%
Karnali	36724	7%	36398	7%
Sudurpaschim	53142	10%	52612	10%
<b>National</b>	<b>536115</b>	<b>100%</b>	<b>533452</b>	<b>100%</b>

# Disease control/elimination/eradication status & national targets

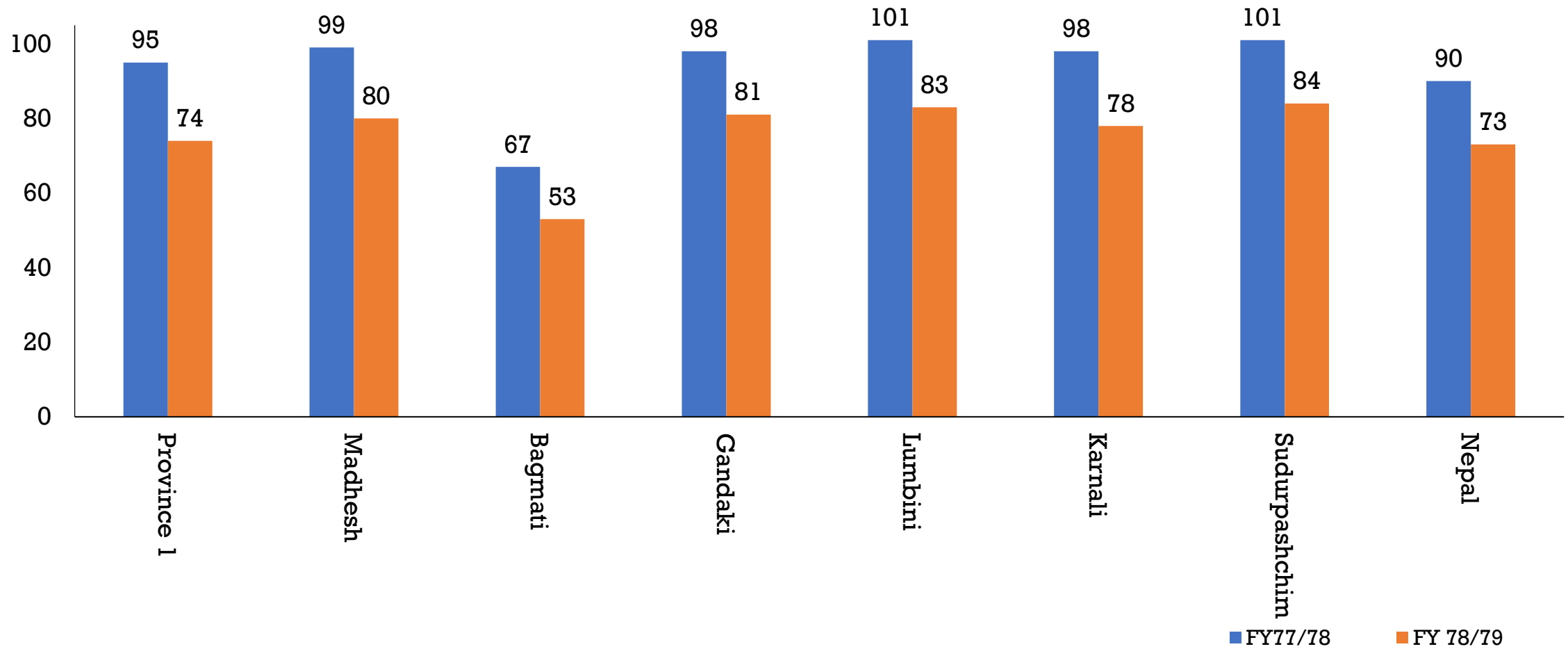
Disease	Current Status	Target	Vaccination Coverage Required in all communities, local levels, districts, provinces, and nationally
Polio	Free	Eradication globally	All 3 doses of OPV >90% All 2 doses of fIPV > 90%
Measles and rubella	Rubella controlled	Measles elimination and rubella elimination	MR first dose > 95% MR second dose > 95%  <b>IT IS NOT POSSIBLE TO ACHIEVE MEASLES ELIMINATION WITHOUT VERY HIGH COVERAGE FOR BOTH DOSES OF MR VACCINE</b>
Japanese encephalitis	Controlled	Increase coverage to further reduce morbidity and mortality	JE vaccine > 90%
Neonatal tetanus	Eliminated	Sustain elimination	Td vaccination coverage for all pregnant women > 90% All 3 doses of DPT-HepB-Hib vaccine >90%
All vaccine preventable diseases (VPDs)	NDHS 2016 shows all basic vaccination coverage is only 78%	Reach every child for full immunization	All children should be given all vaccines included in the National Immunization Program to prevent and reduce morbidity and mortality associated with VPDs

राष्ट्रिय खोप-तालिका				
पटक/लेट	वृत्त उमेर/मा	वृत्त खोप	सुई लगाउने स्थान र माध्यम	वृत्त रोगबाट बचाउनु
१	जन्मदेखि विहिन	बि.पि.जी.	* दोस्रो फाँचुरको माथिल्लो भाग छालाभित्र (intra-dermal)	* डायरोज
२	६ सप्ताहमा	रोटा (दोस्रो खोप) पोलियो (तीस्रो खोप) एफ.आई.पि.जी. (चौथो खोप) बि.पि.जी. (चौथो खोप) डि.पि.टी. टेप बी-हिन (चौथो खोप)	* मुखमा (जन्मदेखि दोस्रो खोप) * मुखमा दुई खोप * दोस्रो फाँचुरको माथिल्लो भाग छालाभित्र (ID) * दोस्रो छिद्रको वित्त बाहिरी भाग माथुमा (IM) * दोस्रो छिद्रको वित्त बाहिरी भाग माथुमा (IM)	* रोटा संक्रमणबाट हुने कालापसाल * पोलियो * पोलियो * ब्रिगेनिया (न्यूमोकोकल रोगहरु) * एन्काफे रोग भन्ने कोही, क्वार्टरमा हेमोफिलस इन्फेन्जिया बी
३	१० सप्ताहमा	रोटा (तीस्रो खोप) पोलियो (चौथो खोप) बि.पि.जी. (चौथो खोप) डि.पि.टी. टेप बी-हिन (चौथो खोप)	* मुखमा (जन्मदेखि दोस्रो खोप) * मुखमा दुई खोप * दोस्रो छिद्रको वित्त बाहिरी भाग माथुमा (IM) * दोस्रो छिद्रको वित्त बाहिरी भाग माथुमा (IM)	* रोटा संक्रमणबाट हुने कालापसाल * पोलियो * ब्रिगेनिया (न्यूमोकोकल रोगहरु) * एन्काफे रोग भन्ने कोही, क्वार्टरमा हेमोफिलस इन्फेन्जिया बी
४	१४ सप्ताहमा	पोलियो (तीस्रो खोप) एफ.आई.पि.जी. (तीस्रो खोप) डि.पि.टी. टेप बी-हिन (तीस्रो खोप)	* मुखमा दुई खोप * दोस्रो फाँचुरको माथिल्लो भाग छालाभित्र (ID) * दोस्रो छिद्रको वित्त बाहिरी भाग माथुमा (IM)	* पोलियो * पोलियो * एन्काफे रोग भन्ने कोही, क्वार्टरमा हेमोफिलस इन्फेन्जिया बी
५	६ महिनामा	बि.पि.जी. (तीस्रो खोप) दादुरा-स्वेला (तीस्रो खोप)	* दोस्रो छिद्रको वित्त बाहिरी भाग माथुमा (IM) * दोस्रो फाँचुरको माथिल्लो भाग छाला र मासु बीच (Subcutaneous)	* ब्रिगेनिया (न्यूमोकोकल रोगहरु) * दादुरा र स्वेला
६	१२ महिनामा	जापानिज इन्फेन्फलाइटिस	* दोस्रो छिद्रको माथिल्लो बाहिरी भागा छाला र मासु बीच (Subcutaneous)	* जापानिज इन्फेन्फलाइटिस
७	१५ महिनामा	दादुरा-स्वेला (तीस्रो खोप)	* दोस्रो फाँचुरको माथिल्लो भाग छाला र मासु बीच (Subcutaneous)	* दादुरा र स्वेला

सम्पन्नगुहोस. पहिलो डि.डि. खोप लगाउनुको उपरान्तमा एउटा महिनाको अन्तरमा १ पटक डि.डि. खोप लगाउनु पर्दछ ।

पूर्ण खोप लगाऔं, बालबालिकालाई रोगहरुबाट सुरक्षित बनाऔं ।

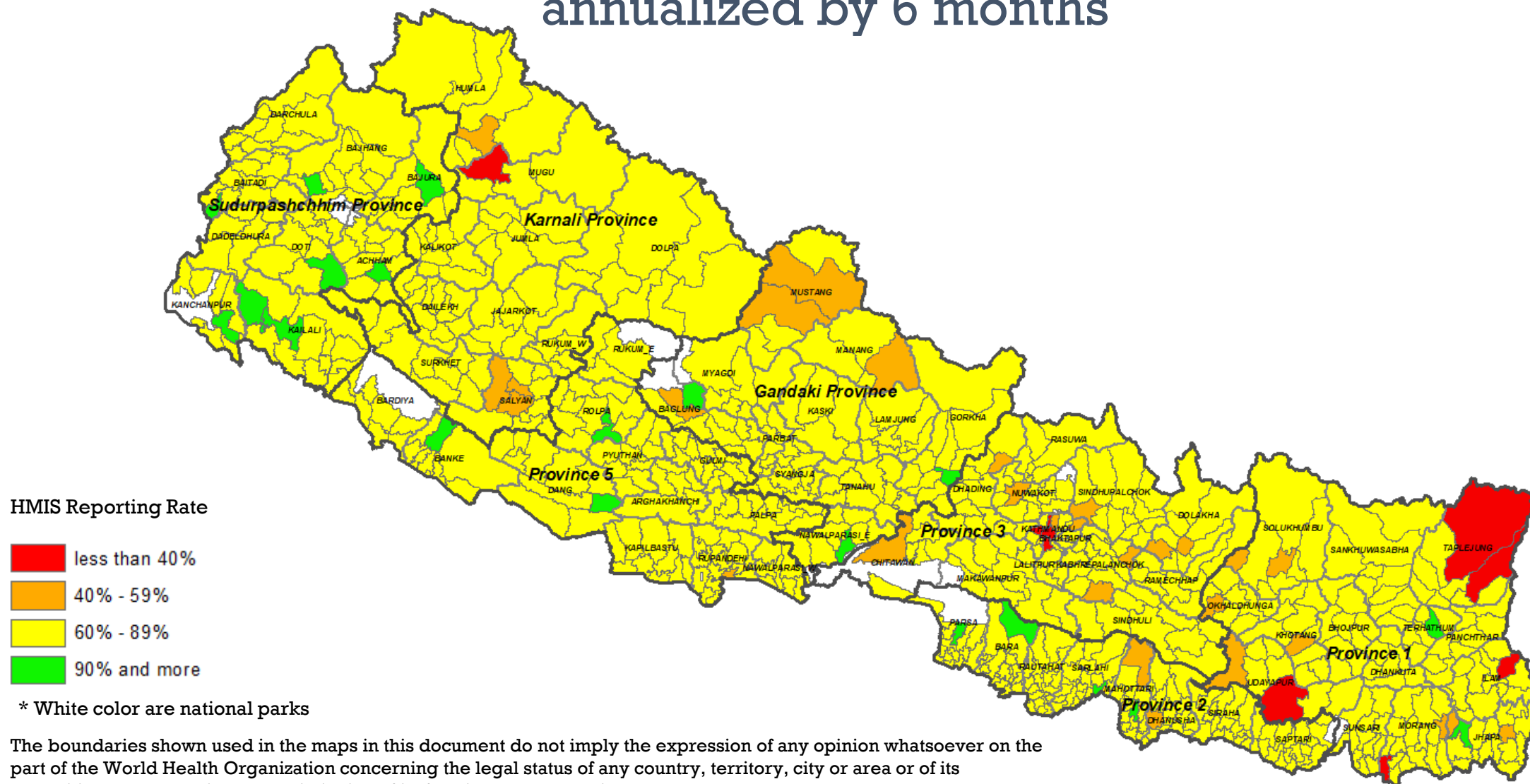
## HMIS Reporting Rate\* of Immunization for FY 2077/78 and FY 2078/79 annualized by 6 months



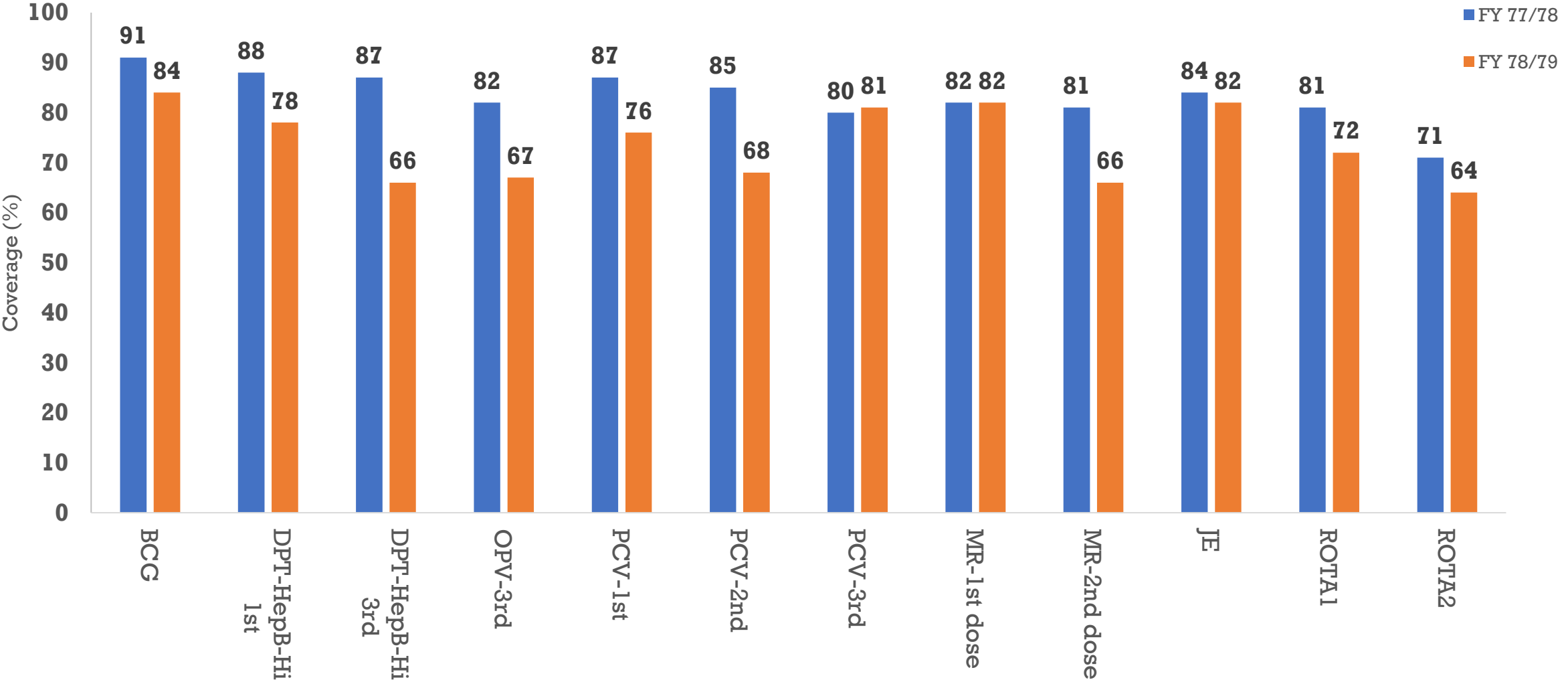
\* Number of reports expected versus number of reports received for 12 months for FY 2077/78 and annualize for 6 months for FY 2078/79 from health facilities providing immunization services

Source: HMIS, DoHS  
Data as of: 17 Jan 2022

# HMIS Reporting Rate\* of Immunization For FY 2078/79 annualized by 6 months



# National routine immunization administrative coverage FY 2077/78 & FY 2078/79 annualized by 6 months



Source: HMIS, DoHS  
Data as of: 17 Jan 2022



# Percentage of DPT-HepB-Hib3 Coverage by district for FY 2078/79 annualized by 6 months

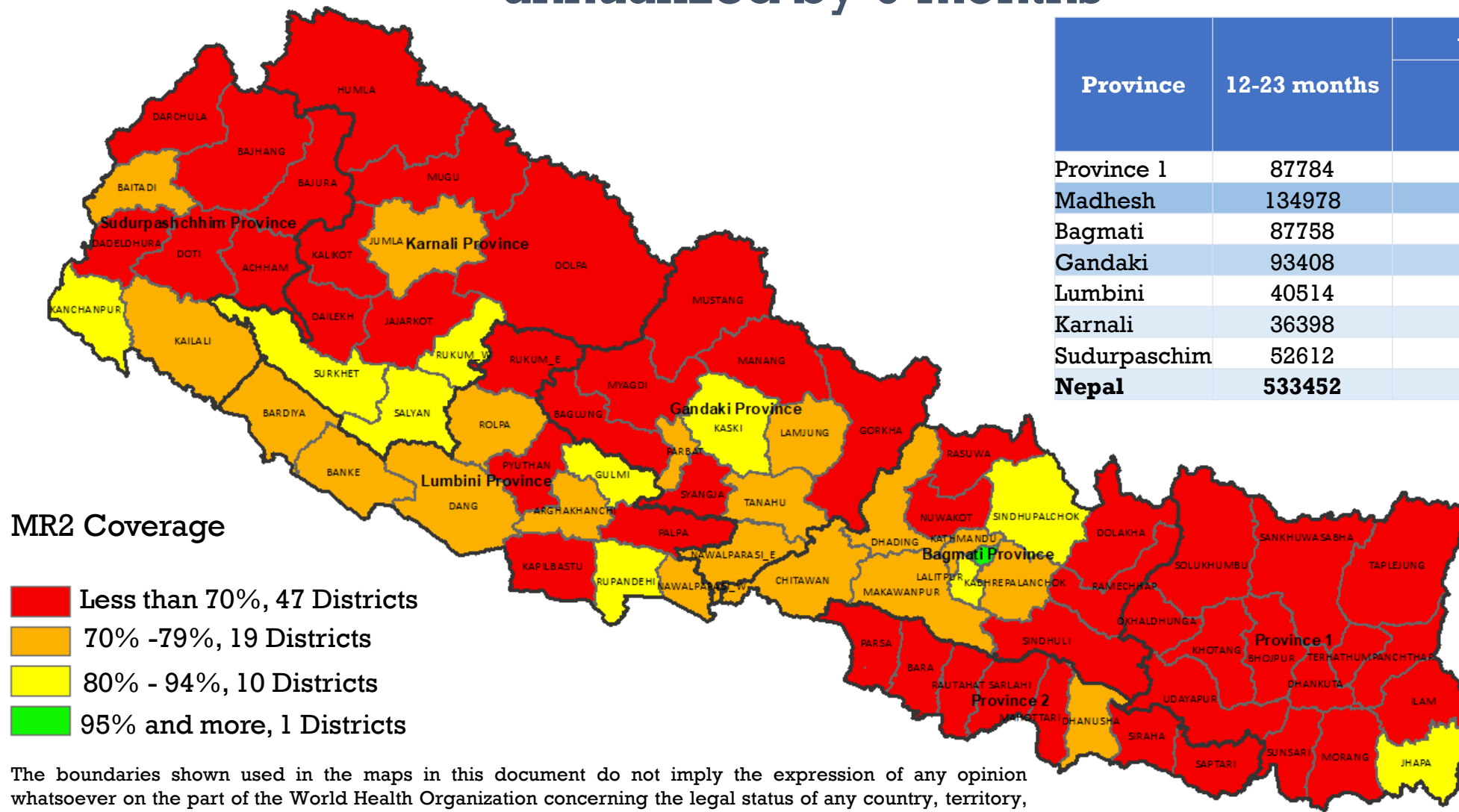
Province	<12 months	Unimmunized for MR2	
		#	% among total unimmunized in the province
Province 1	87631	19258	21%
Madhesh	136073	26332	29%
Bagmati	87983	14005	15%
Gandaki	94106	14502	16%
Lumbini	40456	8708	10%
Karnali	36724	3942	4%
Sudurpaschim	53142	4495	5%
<b>Nepal</b>	<b>536115</b>	<b>91242</b>	<b>100%</b>

## DPT3 Coverage

- Less than 70%, 51 Districts
- 70% -79%, 15 Districts
- 80% - 89%, 6 Districts
- 90% and more, 5 Districts

The boundaries shown used in the maps in this document do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

# Percentage of MR2 Coverage by district for FY 2078/79 annualized by 6 months

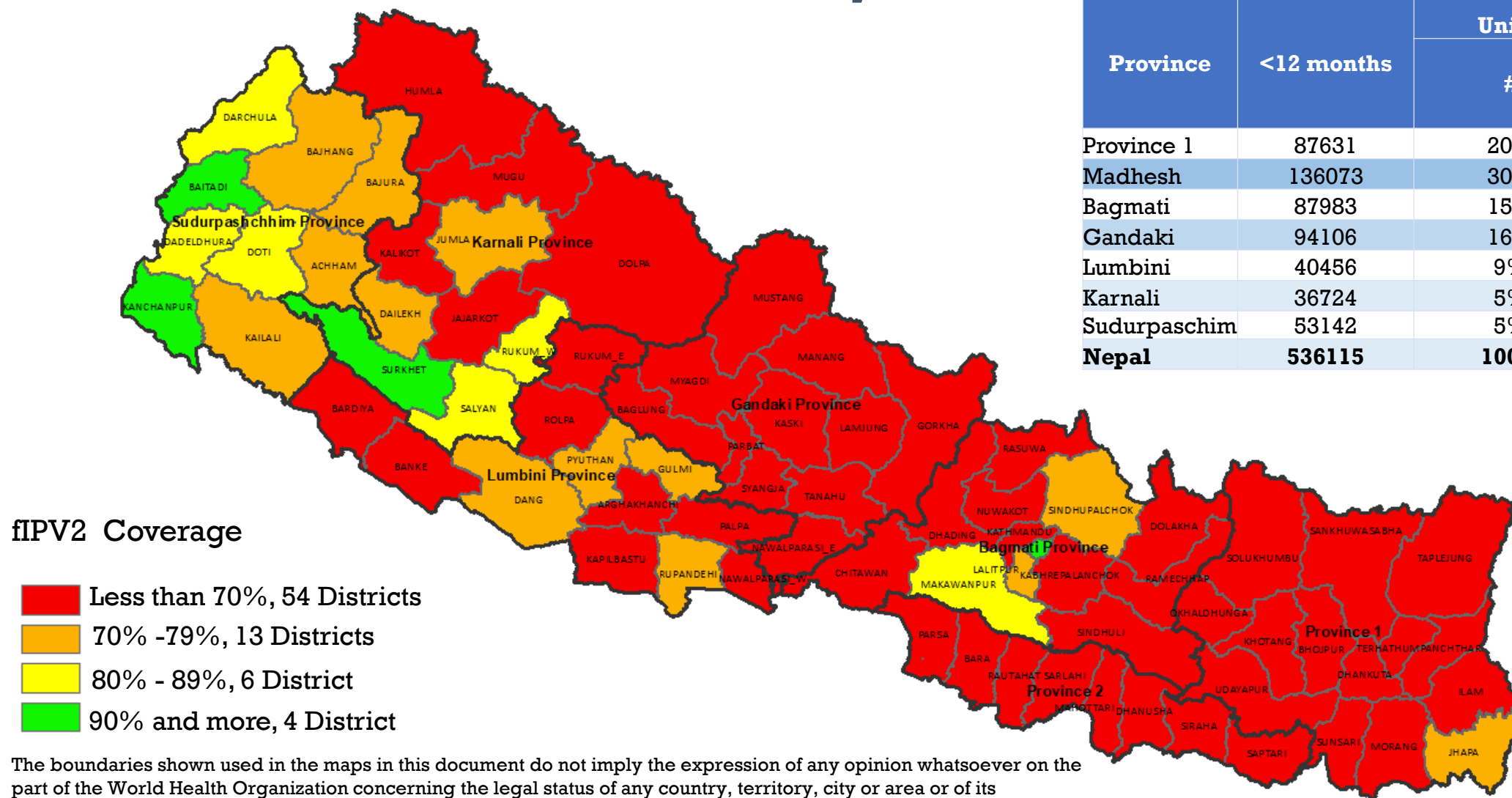


The boundaries shown used in the maps in this document do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Province	12-23 months	Unimmunized for MR2	
		#	% among total unimmunized in the province
Province 1	87784	17572	19%
Madhesh	134978	29684	33%
Bagmati	87758	11245	12%
Gandaki	93408	12700	14%
Lumbini	40514	6158	7%
Karnali	36398	5743	6%
Sudurpaschim	52612	8126	9%
<b>Nepal</b>	<b>533452</b>	<b>91228</b>	<b>100%</b>



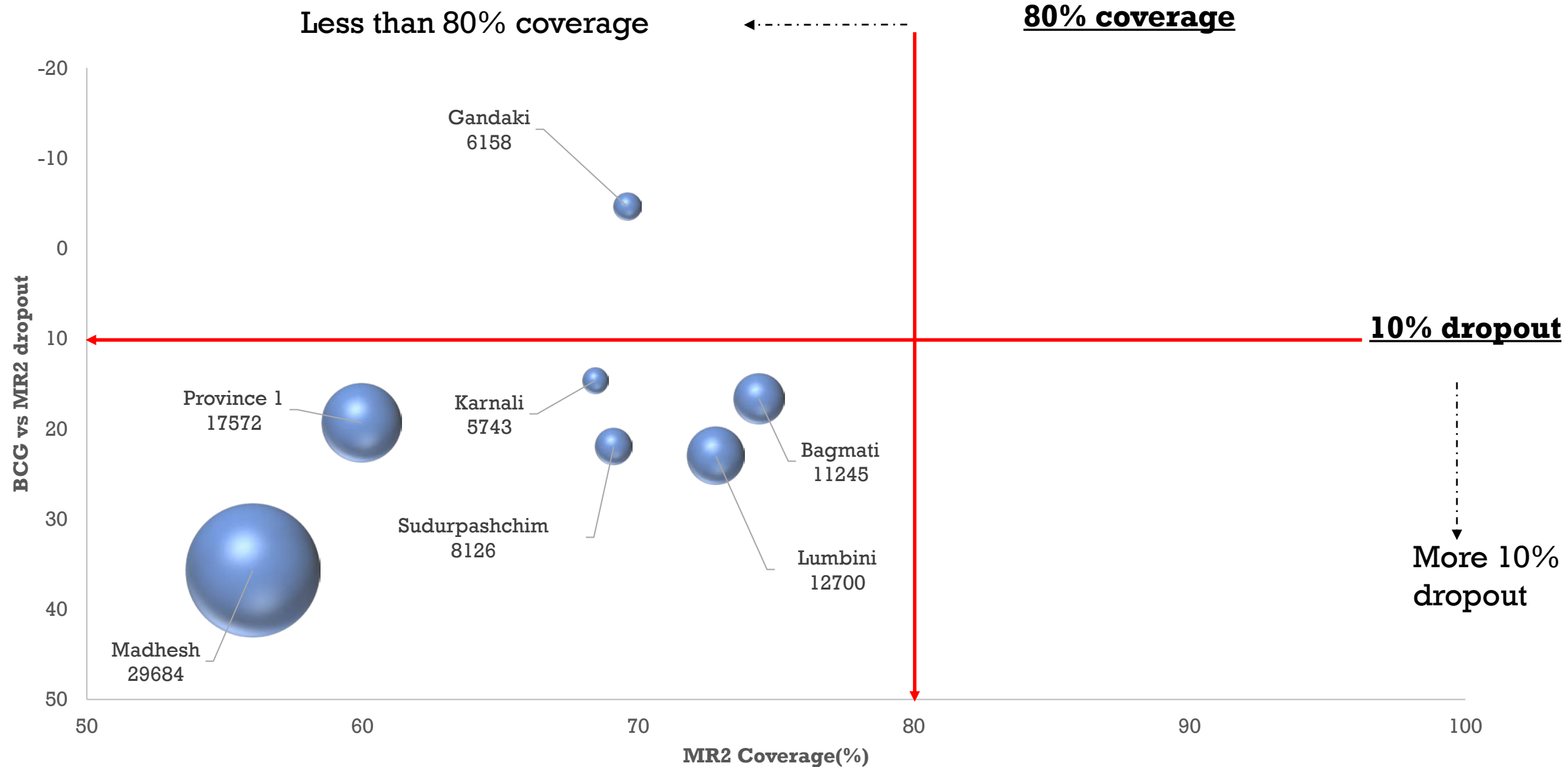
# Percentage of fIPV2 Coverage by district for FY 2078/79 annualized by 6 months



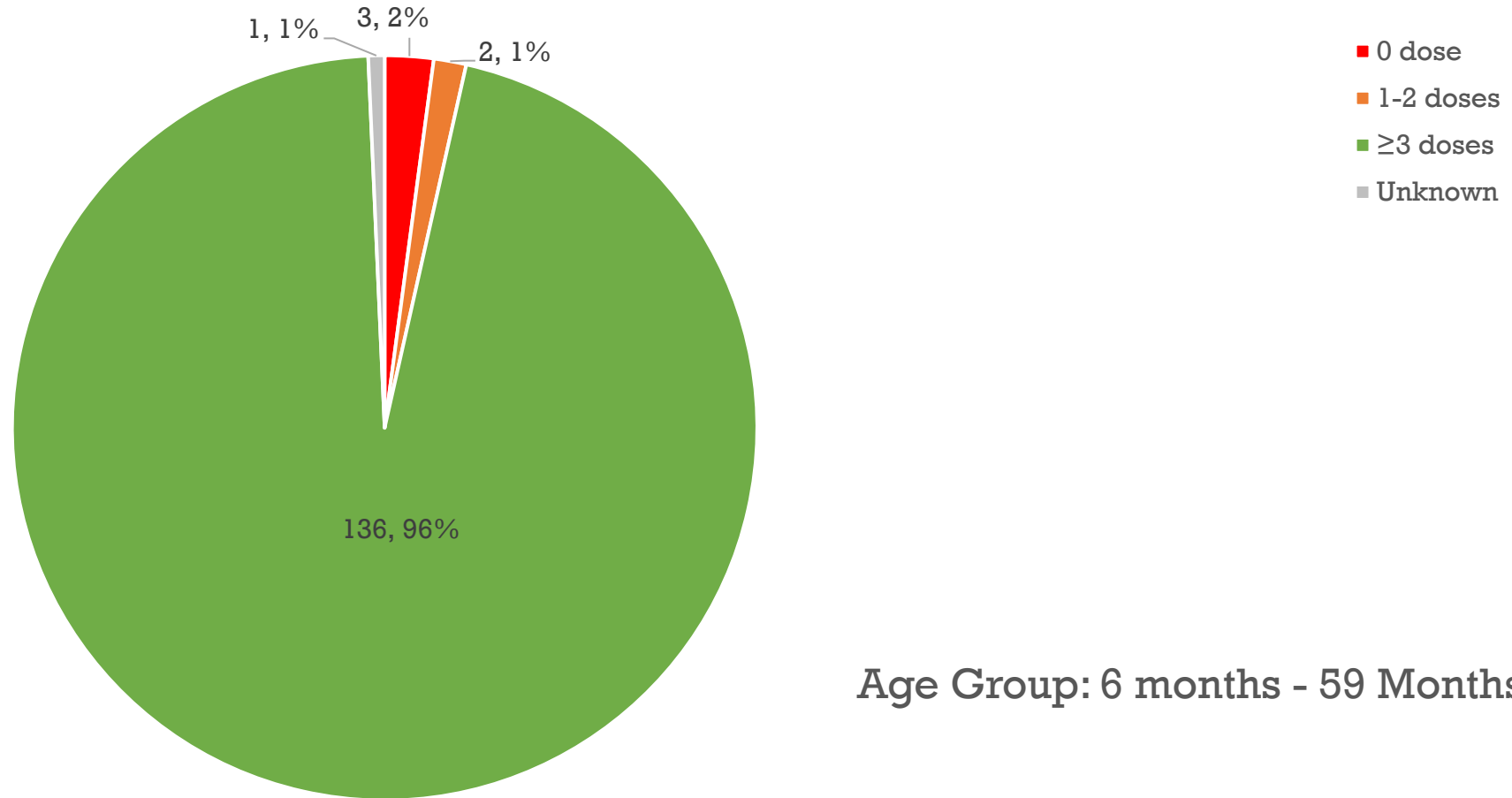
Province	<12 months	Unimmunized for MR2	
		#	% among total unimmunized in the province
Province 1	87631	20%	19690
Madhesh	136073	30%	29627
Bagmati	87983	15%	14390
Gandaki	94106	16%	16027
Lumbini	40456	9%	8716
Karnali	36724	5%	4928
Sudurpaschim	53142	5%	4710
<b>Nepal</b>	<b>536115</b>	<b>100%</b>	<b>98088</b>

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# MR2 Coverage, BCG versus MR2 drop-out and Unimmunized children for MR2 by province FY 2078/79 annualized by 6 months



# OPV vaccination status among NP-AFP cases; Age Group: 6 months - 59 Months: Nepal, 2021 (N=142)



Age Group: 6 months - 59 Months

# MR vaccination status among non-measles non-rubella cases and confirmed measles cases: Nepal, 2021

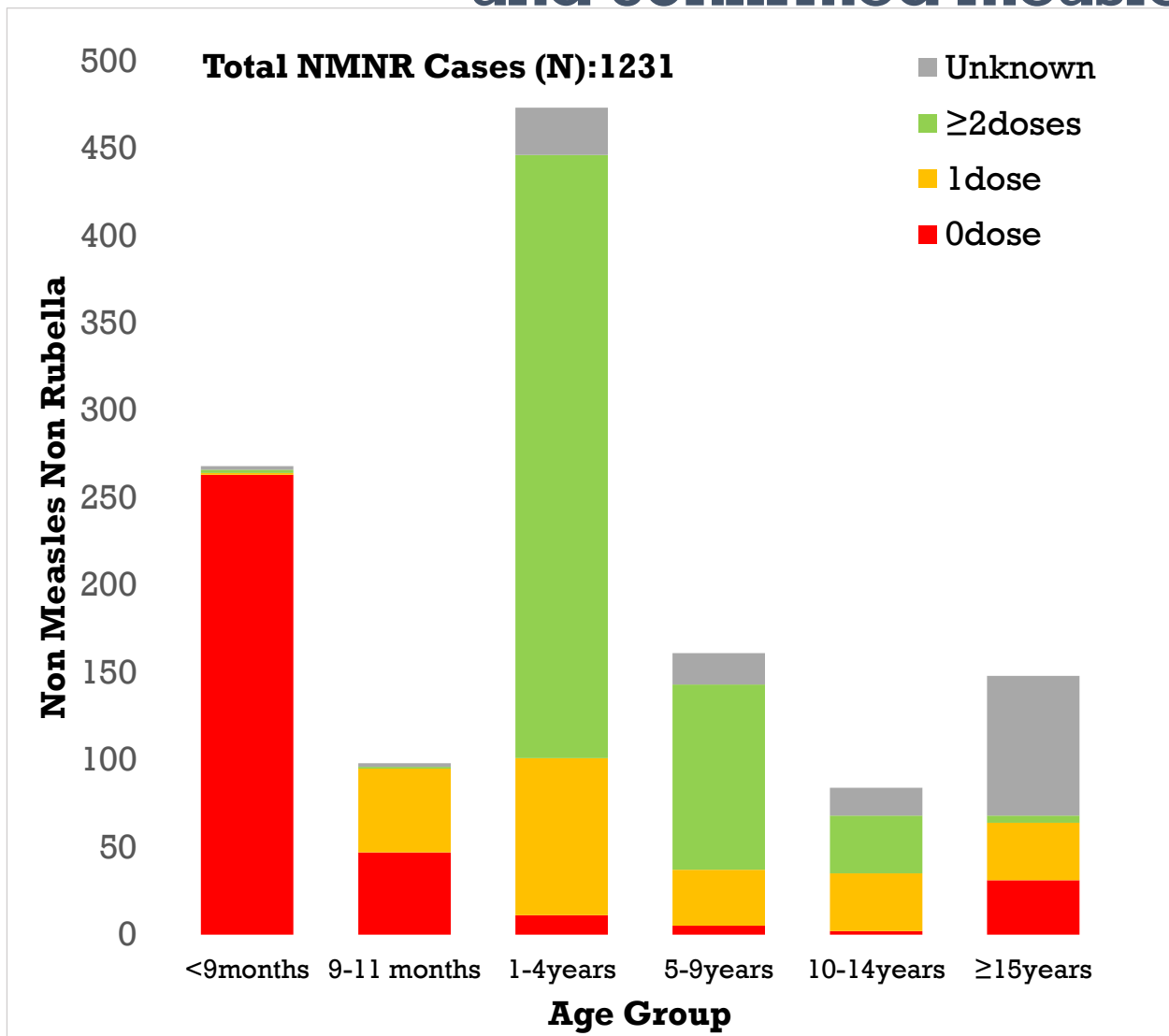


Fig 1. MR vaccination status among NMNR cases

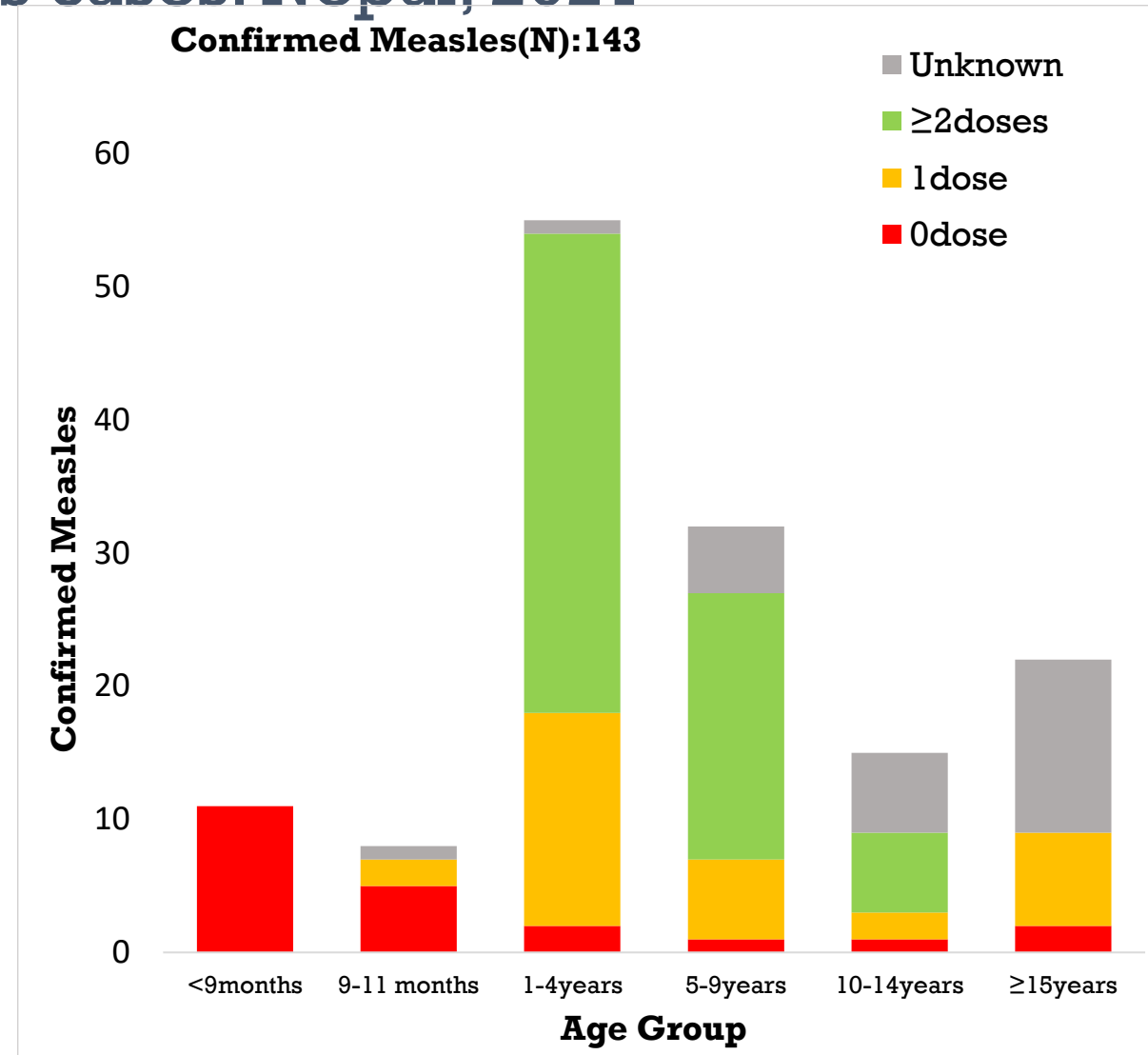


Fig 2. MR vaccination status among confirmed measles cases

# Note

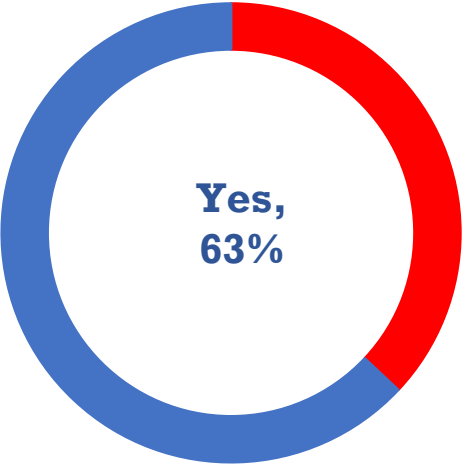
- Data presented is from immunization monitoring conducted by SMO and independent monitors in the given time period.
- Monitoring is conducted at district level (by SMO), and health facility, immunization session and community level (by SMO and independent monitors).
- Purpose of the monitoring is to provide real-time data for program managers and implementers for on-time action to improve immunization program.
- Sampling is purposive and not random. Therefore, generalization or statistical significance Dec not be possible. However, these observations provide real-time data for action and program improvement.
- For example, in Jan to Dec 2021, a total of 7645 children in 831 communities were monitored despite of COVID 19 situation in all over the country.

# Major findings of district level monitoring:

Analysis is based on monitoring conducted in total of **54 districts** over the period from Jan to Dec 2021.  
Status of the latest visit is reflected in the slide set

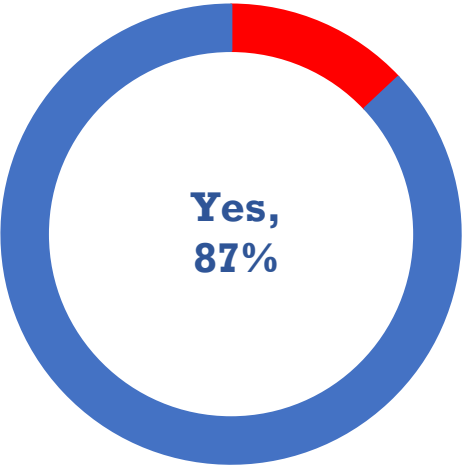


Updated micro plan (inclusion of HTR population and area from municipalities) available



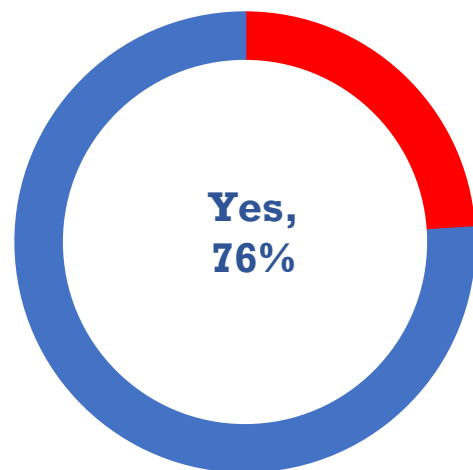
Province	No district visited	Total visits	Yes (N)	Yes (%)
Province 1	6	7	4	67
Madhesh Province	8	32	8	100
Bagmati Province	12	29	3	25
Gandaki Province	10	35	8	80
Lumbini Province	4	5	2	50
Karnali Province	6	20	4	67
Sudurpaschim Province	8	25	5	63
Nepal	54	153	34	63

District updates vaccine and logistic control register at the end of immunization sessions for last month



Province	No district visited	Total visits	Yes (N)	Yes (%)
Province 1	6	7	4	67
Madhesh Province	8	32	5	63
Bagmati Province	12	29	12	100
Gandaki Province	10	35	9	90
Lumbini Province	4	5	4	100
Karnali Province	6	20	6	100
Sudurpaschim Province	8	25	7	88
Nepal	54	153	47	87

District had adequate stock of all vaccines and syringes in the last 3 months

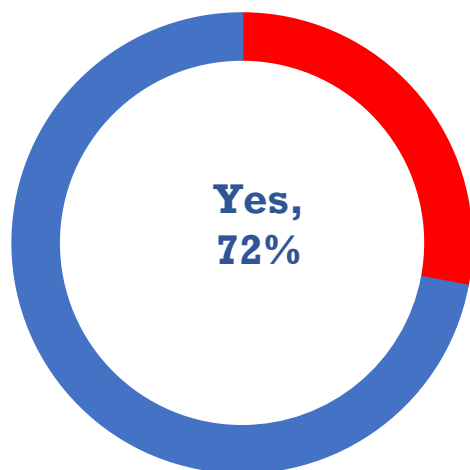


Province	No district visited	Total visits	Yes (N)	Yes (%)
Province 1	6	7	4	67
Madhesh Province	8	32	7	88
Bagmati Province	12	29	11	92
Gandaki Province	10	35	9	90
Lumbini Province	4	5	3	75
Karnali Province	6	20	4	67
Sudurpaschim Province	8	25	3	38
Nepal	54	153	41	76

# Major findings of health facility level monitoring:

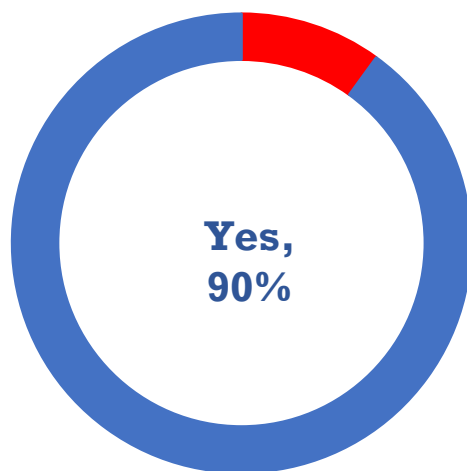
Analysis is based on monitoring conducted in total of **792 health facilities (99 vaccine sub-stores)** in 60 districts from Jan to Dec 2021.

## Vaccine sub-store received adequate supply of vaccine and syringes in last 3 months



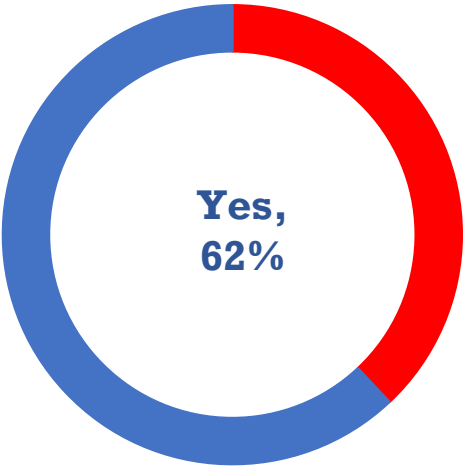
Province	No VSS Visited	Total visits	Yes (N)	Yes (%)
Province 1	6	6	6	100
Madhesh Province	29	34	17	59
Bagmati Province	18	18	12	67
Gandaki Province	18	21	18	100
Lumbini Province	6	6	6	100
Karnali Province	6	8	4	67
Sudurpaschim Province	16	22	8	50
Nepal	99	115	71	72

## Health facility got adequately bundled vaccines, diluents, syringes and safety boxes



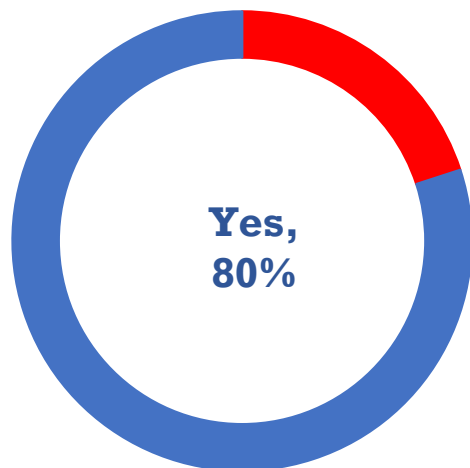
Province	No HF Visited	Total visits	Yes (N)	Yes (%)
Province 1	77	79	61	79
Madhesh Province	200	231	152	76
Bagmati Province	81	83	76	94
Gandaki Province	233	281	233	100
Lumbini Province	65	67	62	95
Karnali Province	65	71	60	92
Sudurpaschim Province	71	88	70	99
Nepal	792	900	714	90

Health facility updated micro-plan as per new local administrative structure (inclusion of HTR population and area from palika )



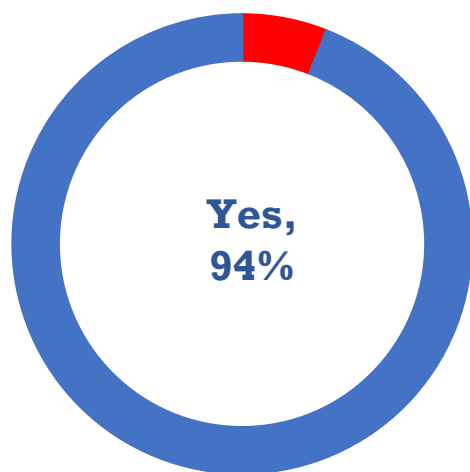
Province	No HF Visited	Total visits	Yes (N)	Yes (%)
Province 1	77	79	57	74
Madhesh Province	200	231	144	72
Bagmati Province	81	83	21	26
Gandaki Province	233	281	136	58
Lumbini Province	65	67	47	72
Karnali Province	65	71	46	71
Sudurpaschim Province	71	88	42	59
Nepal	792	900	493	62

Health facility initiated for 'full immunization' and sustainability plan if already declared fully immunized



Province	No HF Visited	Total visits	Yes (N)	Yes (%)
Province 1	77	79	60	78
Madhesh Province	200	231	184	92
Bagmati Province	81	83	46	57
Gandaki Province	233	281	160	69
Lumbini Province	65	67	62	95
Karnali Province	65	71	55	85
Sudurpaschim Province	71	88	65	92
Nepal	792	900	632	80

Health facility conducted all sessions (out reach, fixed and mobile) as planned



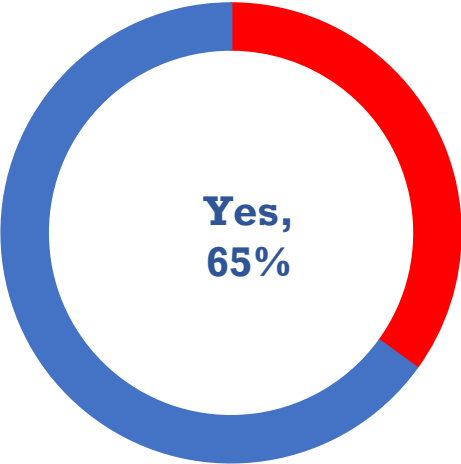
Province	No HF Visited	Total visits	Yes (N)	Yes (%)
Province 1	77	79	67	87
Madhesh Province	200	231	185	93
Bagmati Province	81	83	70	86
Gandaki Province	233	281	231	99
Lumbini Province	65	67	64	98
Karnali Province	65	71	60	92
Sudurpaschim Province	71	88	68	96
Nepal	792	900	745	94



# Major findings of immunization session level monitoring:

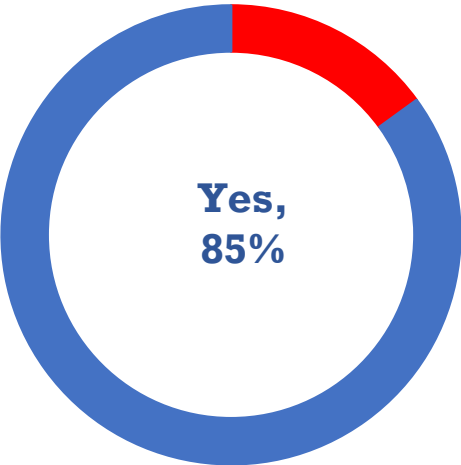
Analysis is based on monitoring conducted in total of **654 sessions**  
of **607 health facilities** over the period from Jan to Dec 2021

Name list of children (expected and missed for earlier session) for this session available



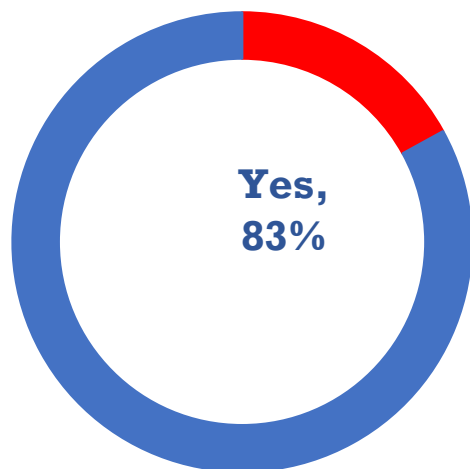
Province	Total HF	Total sessions	Yes (N)	Yes (%)
Province 1	72	76	40	53
Madhesh Province	201	221	182	82
Bagmati Province	64	67	16	24
Gandaki Province	119	128	44	34
Lumbini Province	47	49	40	82
Karnali Province	37	38	27	71
Sudurpaschim Province	67	75	73	97
Nepal	607	654	422	65

Supply of vaccine doses , syringes, diluent and safety boxes matches with session targets



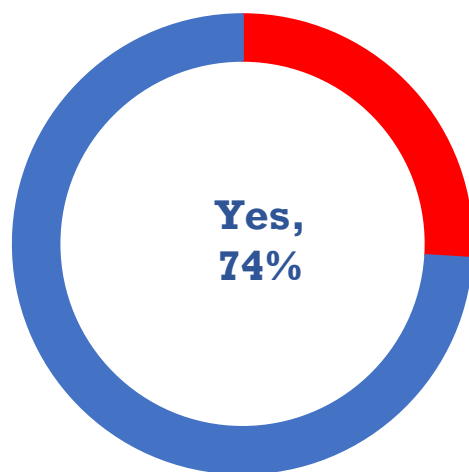
Province	Total HF	Total sessions	Yes (N)	Yes (%)
Province 1	72	76	59	78
Madhesh Province	201	221	153	69
Bagmati Province	64	67	64	96
Gandaki Province	119	128	125	98
Lumbini Province	47	49	47	96
Karnali Province	37	38	34	89
Sudurpaschim Province	67	75	75	100
Nepal	607	654	557	85

## Vaccinator notes date & time of re-constitution for BCG, MR and JE vaccines



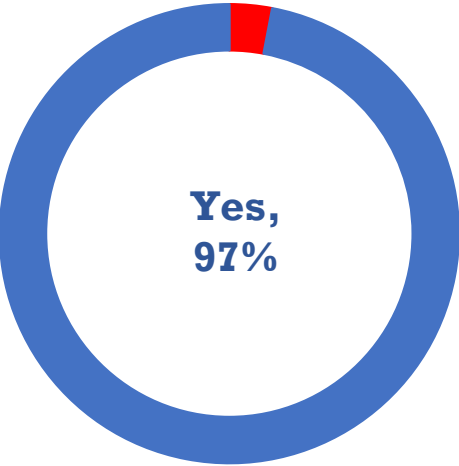
Province	Total HF	Total sessions	Yes (N)	Yes (%)
Province 1	72	76	60	79
Madhesh Province	201	221	173	78
Bagmati Province	64	67	50	75
Gandaki Province	119	128	110	86
Lumbini Province	47	49	44	90
Karnali Province	37	38	33	87
Sudurpaschim Province	67	75	73	97
Nepal	607	654	543	83

## FCHV knows the ages for vaccination with different vaccines as per immunization schedule



Province	Total HF	Total sessions	Yes (N)	Yes (%)
Province 1	72	76	51	67
Madhesh Province	201	221	180	81
Bagmati Province	64	67	36	54
Gandaki Province	119	128	79	62
Lumbini Province	47	49	39	80
Karnali Province	37	38	27	71
Sudurpaschim Province	67	75	69	92
Nepal	607	654	481	74

Mothers/guardians are informed about next dose visits

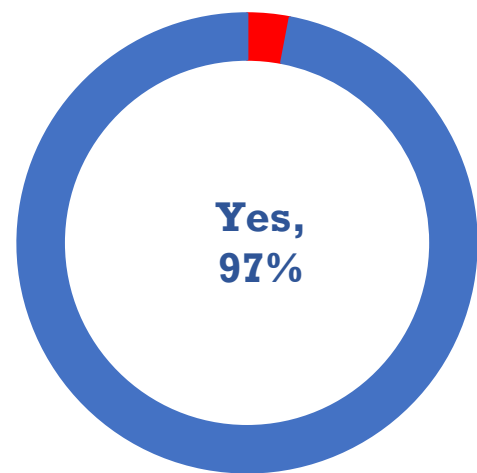


Province	Total HF	Total sessions	Yes (N)	Yes (%)
Province 1	72	76	74	97
Madhesh Province	201	221	210	95
Bagmati Province	64	67	67	100
Gandaki Province	119	128	124	97
Lumbini Province	47	49	49	100
Karnali Province	37	38	38	100
Sudurpaschim Province	67	75	75	100
Nepal	607	654	637	97

# **Major findings of quick immunization assessment in high risk areas**

Analysis is based on monitoring conducted in **7645 Children** in  
**831 communities** across the country from Jan to Dec 2021.

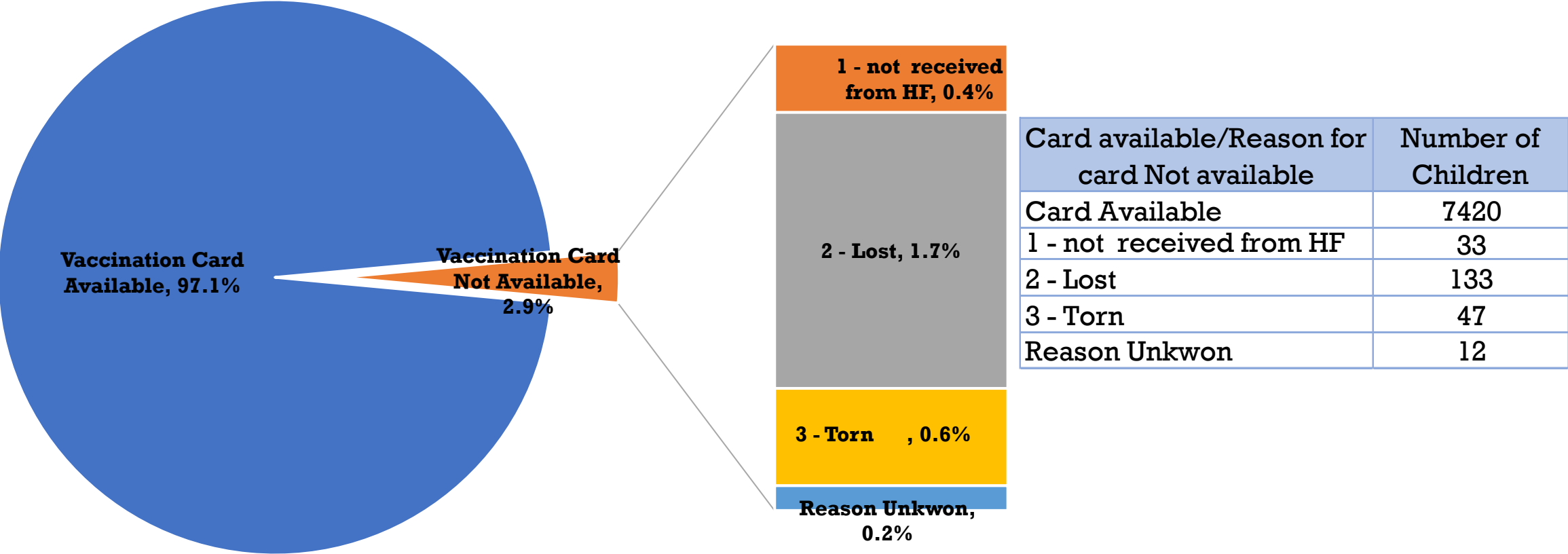
Immunization card availability



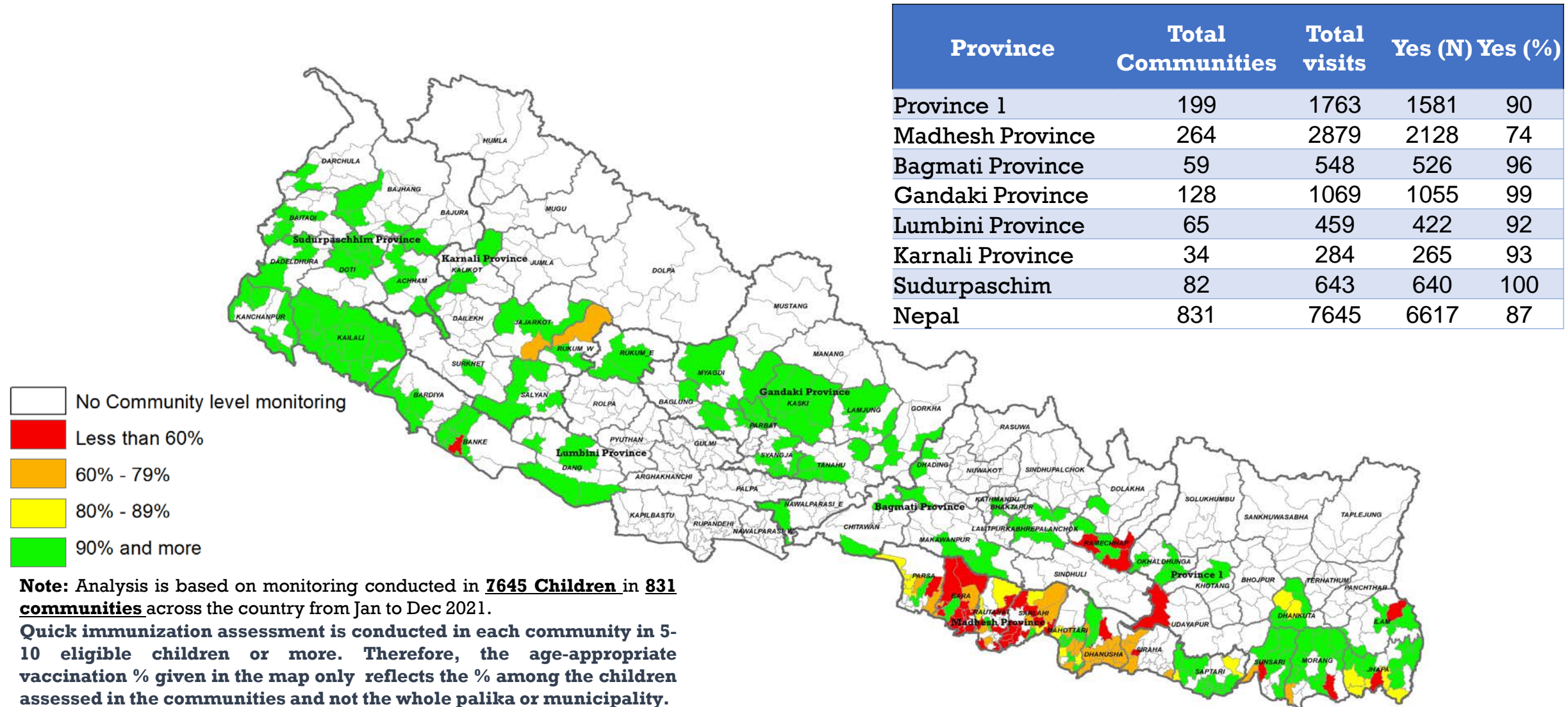
Province	Total Communities	Total visits	Yes (N)	Yes (%)
Province 1	199	1763	1699	96
Madhesh Province	264	2879	2797	97
Bagmati Province	59	548	525	96
Gandaki Province	128	1069	1057	99
Lumbini Province	65	459	428	93
Karnali Province	34	284	274	96
Sudurpaschim Province	82	643	640	100
Nepal	831	7645	7420	97



Reasons for not having immunization card

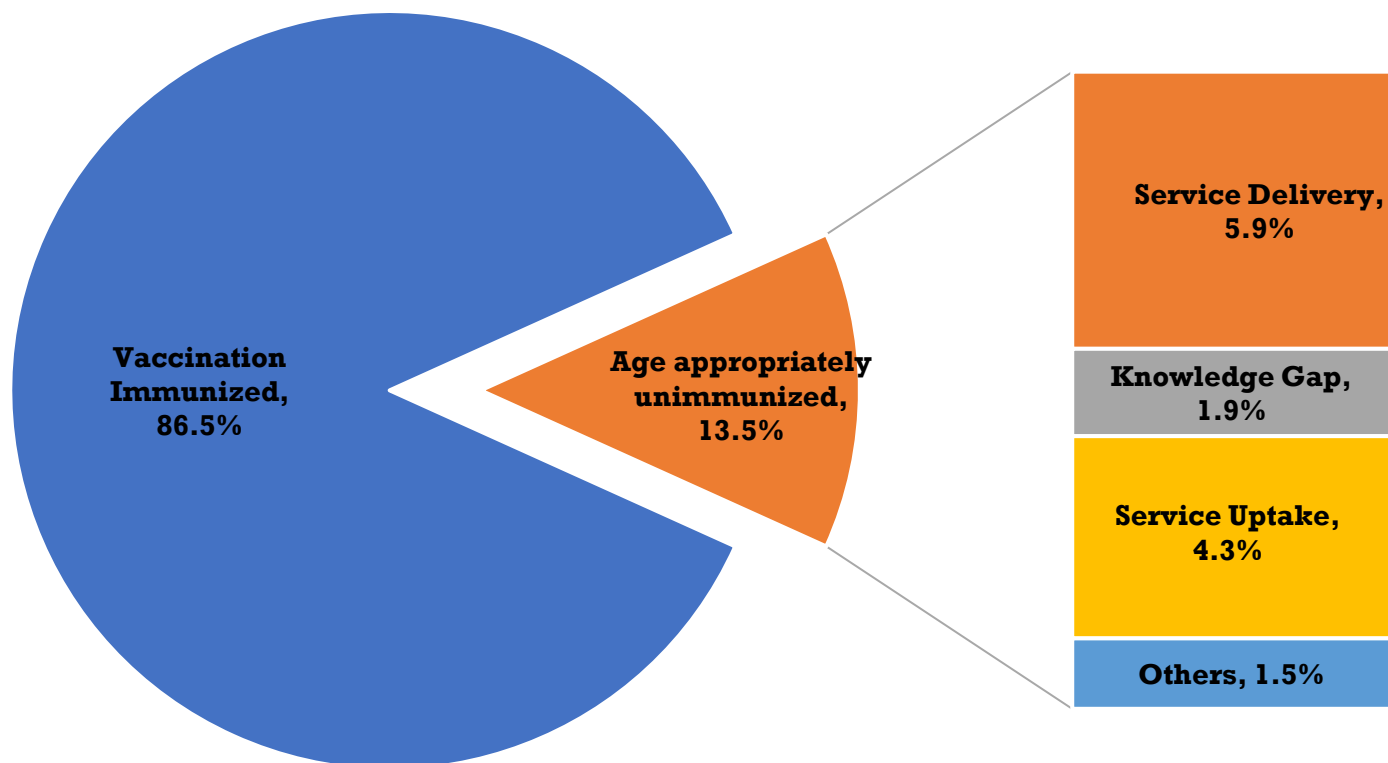


Age-appropriate vaccination status (%) among children aged 6 weeks to 23 months in the community found during Quick Immunization Assessment, Jan to Dec 2021.



The boundaries shown used in the maps in this document do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

## Primary reason for not receiving age-appropriate vaccination (N= 1028)



Reason	N	%
1c.Vaccines not available	429	42
3a.Child not at home	195	19
4 - Others	114	11
3b.Child sick	87	8
2b.Mother does not know the age for vaccination of different vaccine	73	7
2a.Mother does not know total no. of contact for complete immunization	67	7
3c.Fear of AEFI ( any AEFI or fever or pain)	12	1
3d.Thinking will go later	9	1
3i.Fear of getting infected with COVID-19 at immunization session site	8	1
3e.Fear of multiple injections	7	1
1e. Immunization session not conducted	6	1
1d.Syringes or other supplies not available	4	0
1g.Working or busy parents	4	0
3k.Complete refusal to vaccinate	3	0
1i. Migration/mobile population ( Example: seasonal migration, ethnic group migration, construction workers etc.)	2	0
3f.Past history of AEFI	2	0
1a. Vaccination site too far	1	0
1b. Vaccinator not available	1	0
2c.Mother does not know immunization session site	1	0
3g.No belief in vaccine	1	0
3h.Religious	1	0
3j.Undecided ( Can not decide whether vaccine is needed or not)	1	0

**Note:** Analysis is based on monitoring conducted in **7645 Children** in **831 communities** across the country from Jan to Dec 2021.

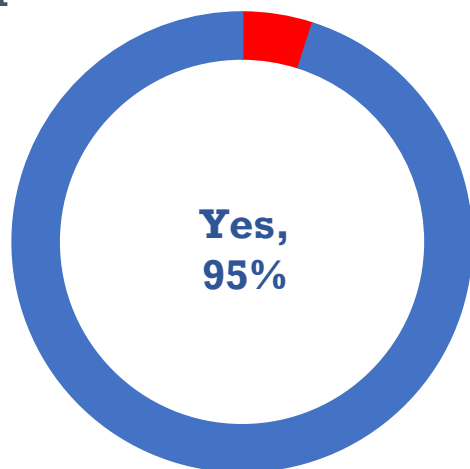
The % given is for being age-appropriately vaccinated or not for BCG, DPT-HepB-Hib doses, OPV doses, PCV doses, MR doses, and JEV. If children have missed any of the given vaccines or doses as per age, then they are categorized as not being age appropriately vaccinated. These figures should not be used to ascertain absolute coverage of vaccines or full immunization. Rather, these figures should be used to find the reasons for children not being vaccinated on time, and to address these issues to increase age-appropriate vaccination and ultimately coverages of all vaccines.

The children assessed during quick immunization assessment (QIA) in a community are within 6 weeks to 23 months of age. During QIA, if the monitors find children who are not age-appropriately vaccinated, then the monitors ask the parents/guardians to take their children for vaccination, and also inform the respective health facility. Therefore, the children who are represented as not being age-appropriately vaccinated in these figures, could still have received the required vaccines later on (however, receipt of these vaccines, will be delayed or not on-time)

# Primary reason for not receiving age-appropriate vaccination (N= 1028)

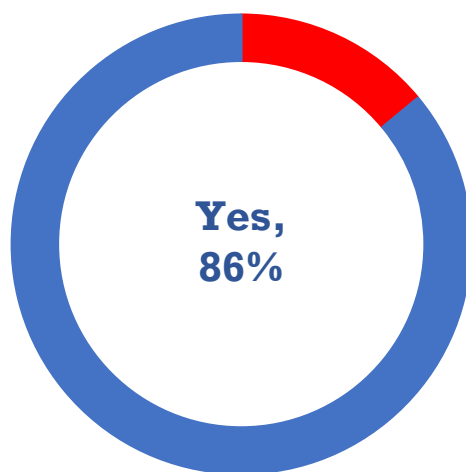
Reason Category	Reason	Province 1		Madhesh		Bagmati		Gandaki		Lumbini		Karnali		Sudurpaschhim	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%
Service Delivery	1a. Vaccination site too far	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	1b. Vaccinator not available	0	0	0	0	0	0	0	0	0	0	1	5	0	0
	1c. Vaccines not available	14	8	396	53	14	64	0	0	0	0	5	26	0	0
	1d. Syringes or other supplies not available	0	0	4	1	0	0	0	0	0	0	0	0	0	0
	1e. Immunization session not conducted	3	2	3	0	0	0	0	0	0	0	0	0	0	0
	1g. Working or busy parents	1	1	2	0	0	0	0	0	0	0	1	5	0	0
	1i. Migration/mobile population ( Example: seasonal migration, ethnic group migration, construction workers etc.)	1	1	0	0	0	0	1	7	0	0	0	0	0	0
	1j. Displaced population (refugee, IDP, flood victims of disaster victims)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Knowledge Gap	2a. Mother does not know total no. of contact for complete immunization	24	13	39	5	0	0	3	21	0	0	1	5	0	0
	2b. Mother does not know the age for vaccination of different vaccine	20	11	48	6	1	5	2	14	0	0	1	5	1	33
	2c. Mother does not know immunization session site	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Service Uptake	3a. Child not at home	30	16	157	21	1	5	0	0	0	0	7	37	0	0
	3b. Child sick	32	18	47	6	4	18	4	29	0	0	0	0	0	0
	3c. Fear of AEFI ( any AEFI or fever or pain)	8	4	4	1	0	0	0	0	0	0	0	0	0	0
	3d. Thinking will go later	5	3	2	0	0	0	0	0	0	0	1	5	1	33
	3e. Fear of multiple injections	0	0	7	1	0	0	0	0	0	0	0	0	0	0
	3f. Past history of AEFI	0	0	2	0	0	0	0	0	0	0	0	0	0	0
	3g. No belief in vaccine	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	3h. Religious	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	3i. Fear of getting infected with COVID-19 at immunization session site	7	4	1	0	0	0	0	0	0	0	0	0	0	0
	3j. Undecided ( Can not decide whether vaccine is needed or not)	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	3k. Complete refusal to vaccinate	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Others	4 - Others	35	19	33	4	2	9	4	29	37	100	2	11	1	33
Total		182	100	751	100	22	100	14	100	37	100	19	100	3	100

## Mother/caregiver knows vaccines due for next visit & date, day, and place of session



Province	Total Communities	Total visits	Yes (N)	Yes (%)
Province 1	199	1763	1660	94
Madhesh Province	264	2879	2728	95
Bagmati Province	59	548	511	93
Gandaki Province	128	1069	1056	99
Lumbini Province	65	459	421	92
Karnali Province	34	284	275	97
Sudurpaschim Province	82	643	633	98
Nepal	831	7645	7284	95

## Child delivery in hospital/health facility (institutional)



Province	Total Communities	Total visits	Yes (N)	Yes (%)
Province 1	199	1763	1548	88
Madhesh Province	264	2879	2189	76
Bagmati Province	59	548	487	89
Gandaki Province	128	1069	1049	98
Lumbini Province	65	459	430	94
Karnali Province	34	284	235	83
Sudurpaschim Province	82	643	621	97
Nepal	831	7645	6559	86