

Immunization Update of Nepal National level

Update for 2020
Feb 2021

Country basic information and population by district and province

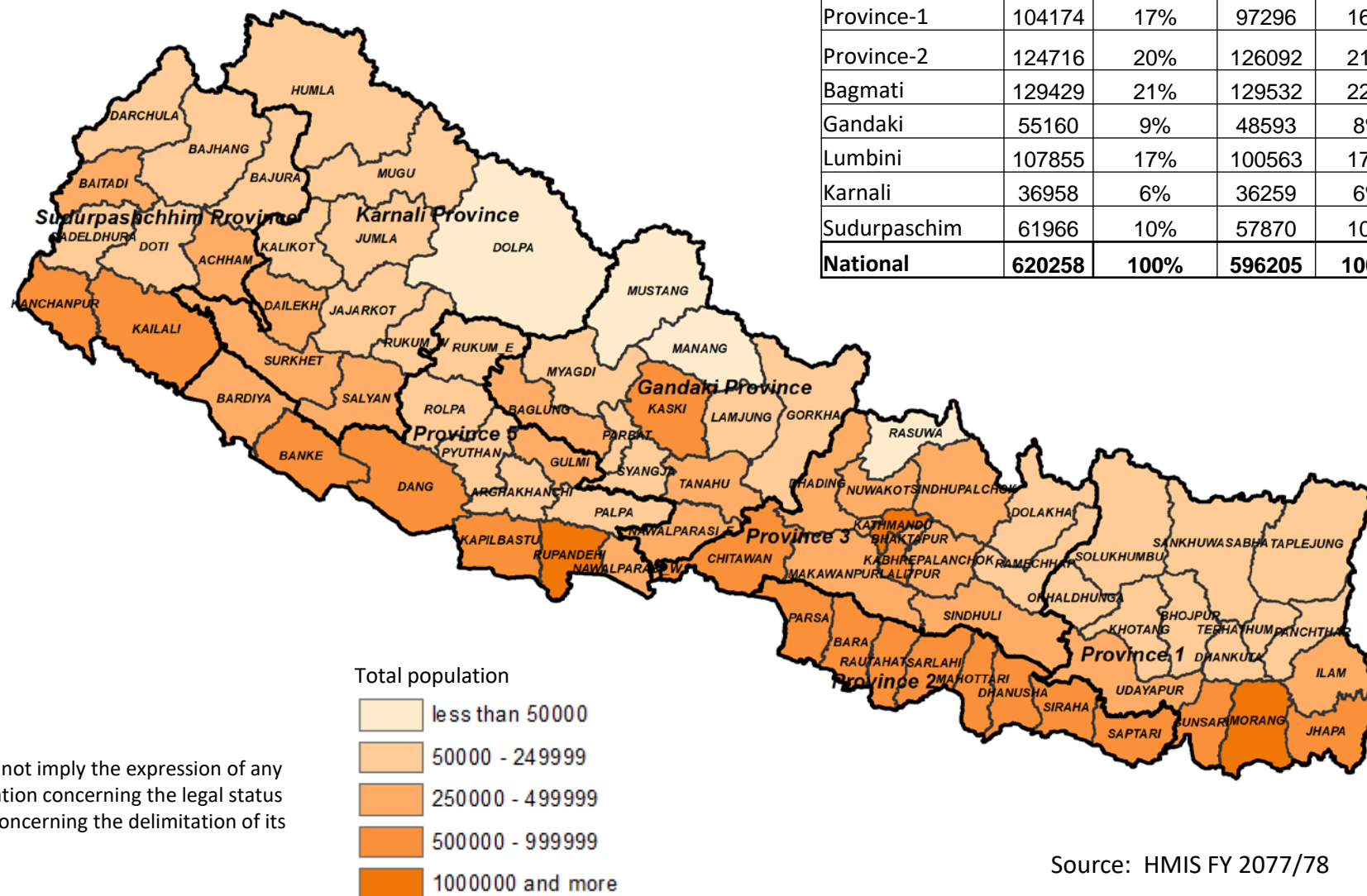
Basic information

Total population ¹	30,201,100
Live births ¹	638,125
Children <1 year ¹	620,258
Children <5 years ¹	3,028,588
Children <15 years ¹	8,636,335
Pregnant women ¹	752,506
Women of child bearing age ¹	8774228
Neonatal mortality rate ²	21.1 (per 1,000 LB)
Infant mortality rate ²	32.0 (per 1,000 LB)
Under-five mortality rate ²	39.0 (per 1,000 LB)
Maternal mortality ratio ²	239 (per 100,000 LB)
Province	7
District	77

¹ HMIS 2077/78

² NDHS 2016

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Province	<12 months pop		12-23 months pop	
	#	%	#	%
Province-1	104174	17%	97296	16%
Province-2	124716	20%	126092	21%
Bagmati	129429	21%	129532	22%
Gandaki	55160	9%	48593	8%
Lumbini	107855	17%	100563	17%
Karnali	36958	6%	36259	6%
Sudurpaschim	61966	10%	57870	10%
National	620258	100%	596205	100%

Source: HMIS FY 2077/78

Disease control/elimination/eradication status & national targets

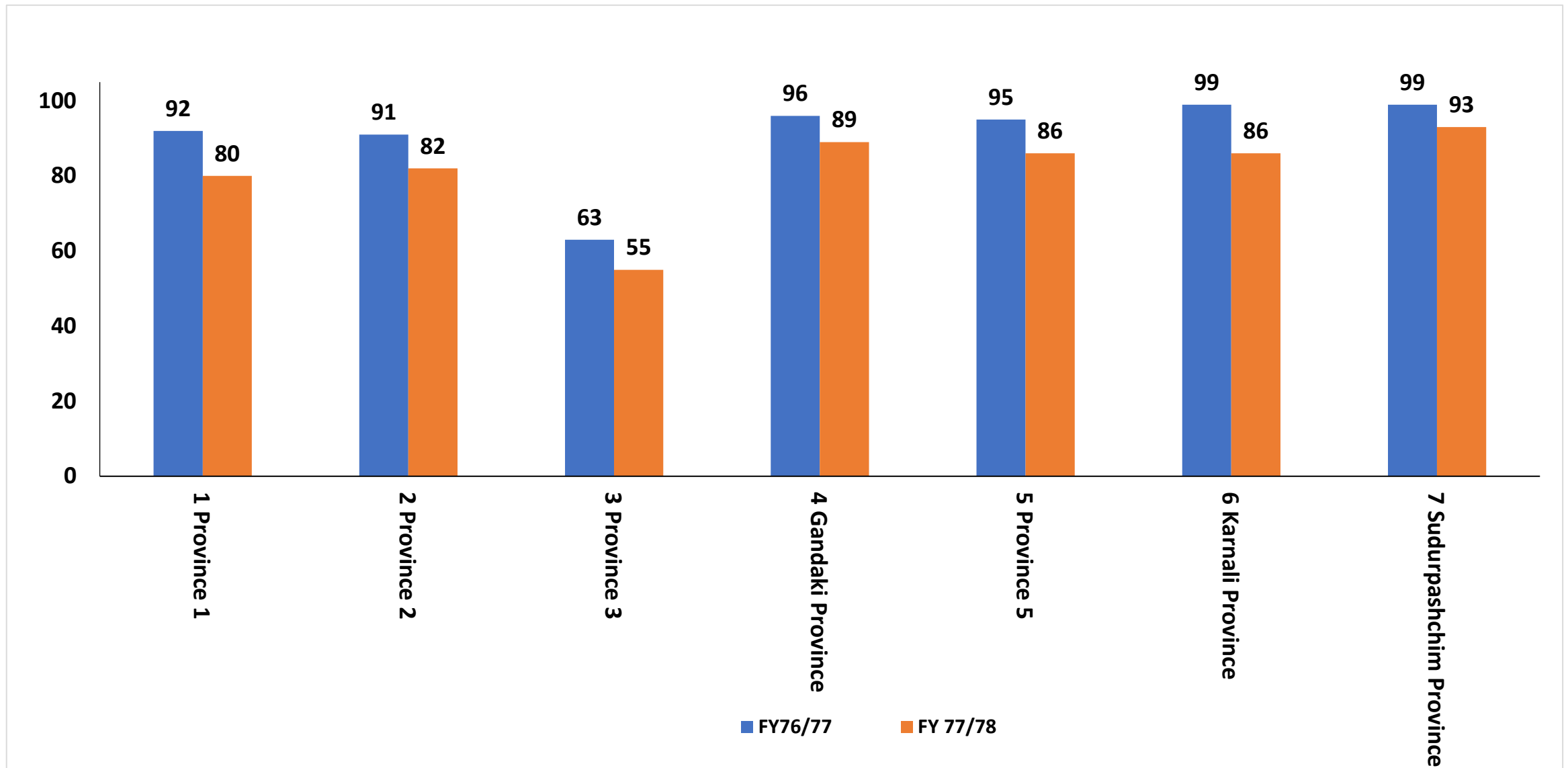
Disease	Current Status	Target	Vaccination Coverage Required in all communities, local levels, districts, provinces, and nationally
Polio	Free	Eradication globally	All 3 doses of OPV >90% All 2 doses of fIPV > 90%
Measles and rubella	Rubella controlled	Measles elimination and rubella elimination	MR first dose > 95% MR second dose > 95% IT IS NOT POSSIBLE TO ACHIEVE MEASLES ELIMINATION WITHOUT VERY HIGH COVERAGE FOR BOTH DOSES OF MR VACCINE
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

वृत्त/गेट	वृत्त उमेरमा	वृत्त खोप	सुई लगाउने स्थान र माध्यम	वृत्त रोगबाट बचाउँछ
१	जन्मदेखि जन्मदेखि	बि.सि.जी.	• दोस्रो घाँघुराको माथिल्लो भाग छालामा (Intra-dermal)	• खसरोज
२	६ हप्तामा	• दोस्रो खसरोजको लागि पोलिओ (बहिरी खसरोज) एफ.आई.पि.जी. (बहिरी खसरोज) पि.सि.जी. (बहिरी खसरोज) डि.पि.टी., हेप बी-हिब (बहिरी खसरोज)	• मुखमा दुई खोप • दोस्रो घाँघुराको माथिल्लो भाग छालामा (ID) • दोस्रो घाँघुराको भित्र बाहिरी भाग मासुजमा (IM) • दोस्रो घाँघुराको भित्र बाहिरी भाग मासुजमा (IM)	• खसरोज • पोलियो • ब्रिगेसिया (ब्रिगेसियाको रोगहटाउने) • एच.आई.वी.बाट बच्ने कोषी, एच.आई.वी. हेप.बी.बाट बच्ने कोषी, एच.आई.वी.बाट बच्ने कोषी
३	१० हप्तामा	• दोस्रो खसरोजको लागि पोलिओ (बहिरी खसरोज) एफ.आई.पि.जी. (बहिरी खसरोज) पि.सि.जी. (बहिरी खसरोज) डि.पि.टी., हेप बी-हिब (बहिरी खसरोज)	• मुखमा दुई खोप • दोस्रो घाँघुराको माथिल्लो भाग छालामा (ID) • दोस्रो घाँघुराको भित्र बाहिरी भाग मासुजमा (IM) • दोस्रो घाँघुराको भित्र बाहिरी भाग मासुजमा (IM)	• खसरोज • पोलियो • ब्रिगेसिया (ब्रिगेसियाको रोगहटाउने) • एच.आई.वी.बाट बच्ने कोषी, एच.आई.वी. हेप.बी.बाट बच्ने कोषी, एच.आई.वी.बाट बच्ने कोषी
४	१४ हप्तामा	• दोस्रो खसरोजको लागि पोलिओ (बहिरी खसरोज) एफ.आई.पि.जी. (बहिरी खसरोज) पि.सि.जी. (बहिरी खसरोज) डि.पि.टी., हेप बी-हिब (बहिरी खसरोज)	• मुखमा दुई खोप • दोस्रो घाँघुराको माथिल्लो भाग छालामा (ID) • दोस्रो घाँघुराको भित्र बाहिरी भाग मासुजमा (IM) • दोस्रो घाँघुराको भित्र बाहिरी भाग मासुजमा (IM)	• खसरोज • पोलियो • ब्रिगेसिया (ब्रिगेसियाको रोगहटाउने) • एच.आई.वी.बाट बच्ने कोषी, एच.आई.वी. हेप.बी.बाट बच्ने कोषी, एच.आई.वी.बाट बच्ने कोषी
५	९ महिनामा	पि.सि.जी. (बहिरी खसरोज) द्वि-सुई (बहिरी खसरोज)	• दोस्रो घाँघुराको माथिल्लो भाग छालामा र मासु बीच (Subcutaneous) • दोस्रो घाँघुराको माथिल्लो भाग छालामा र मासु बीच (Subcutaneous)	• ब्रिगेसिया (ब्रिगेसियाको रोगहटाउने) • खसरोज र खसरोज
६	१२ महिनामा	जापानिज इन्फेक्शनसिस्टि	• दोस्रो घाँघुराको माथिल्लो भाग छालामा र मासु बीच (Subcutaneous) • दोस्रो घाँघुराको माथिल्लो भाग छालामा र मासु बीच (Subcutaneous)	• जापानिज इन्फेक्शनसिस्टि
७	१५ महिनामा	खसरोज-स्वैला (बहिरी खसरोज)	• दोस्रो घाँघुराको माथिल्लो भाग छालामा र मासु बीच (Subcutaneous) • दोस्रो घाँघुराको माथिल्लो भाग छालामा र मासु बीच (Subcutaneous)	• खसरोज र खसरोज

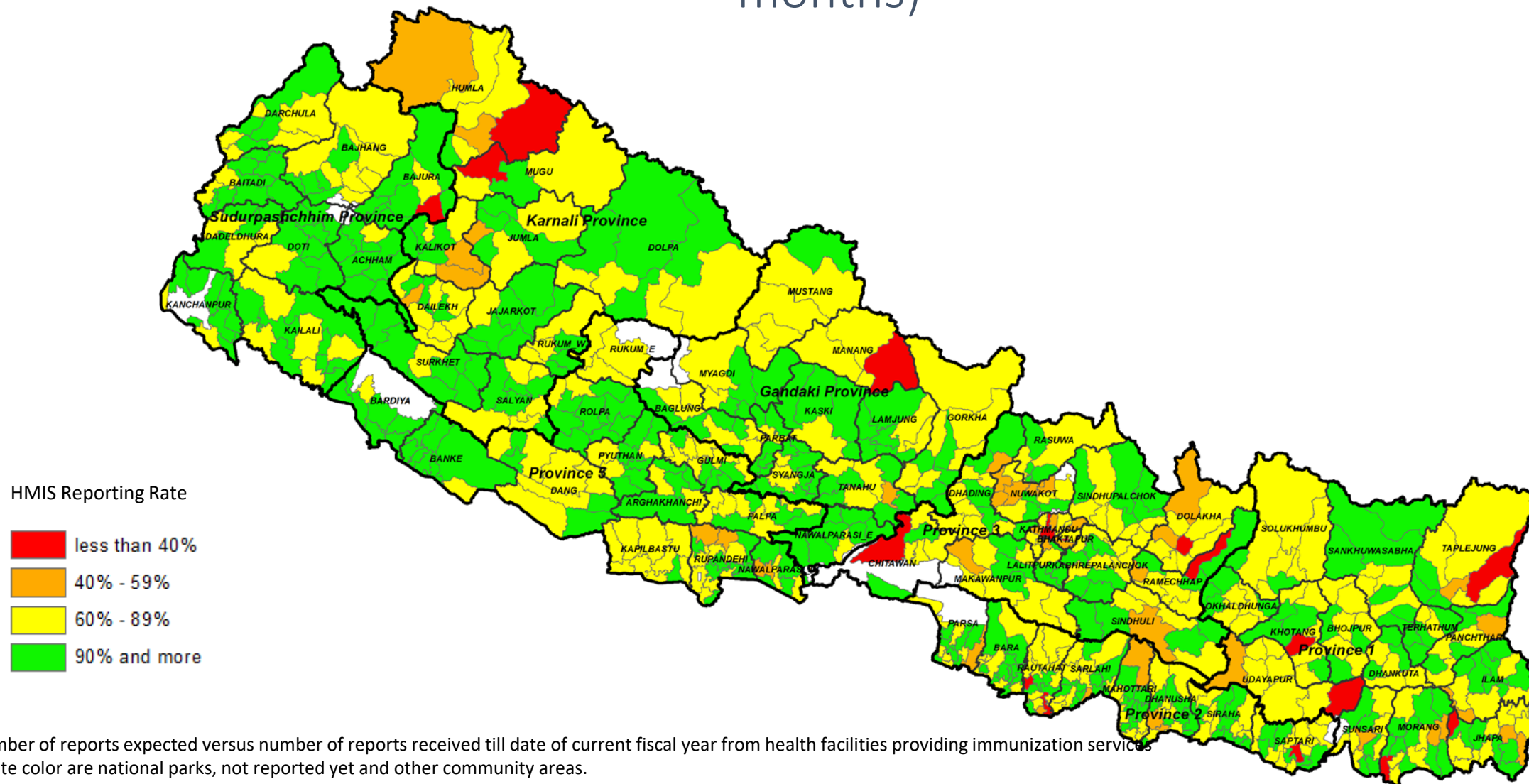
सम्पूर्णमाथिले, पहिलो डि.डि. खोप लगाउनुको लागि बालबालिकालाई रोगहटाउने सुरक्षित बनाउनु ।
पूर्ण खोप लगाउनु, बालबालिकालाई रोगहटाउने सुरक्षित बनाउनु ।



HMIS Reporting Rate* of Immunization for FY 2076/77 and FY 2077/78



HMIS Reporting Rate* of Immunization For FY 2077/78 (Annualize for 6 months)



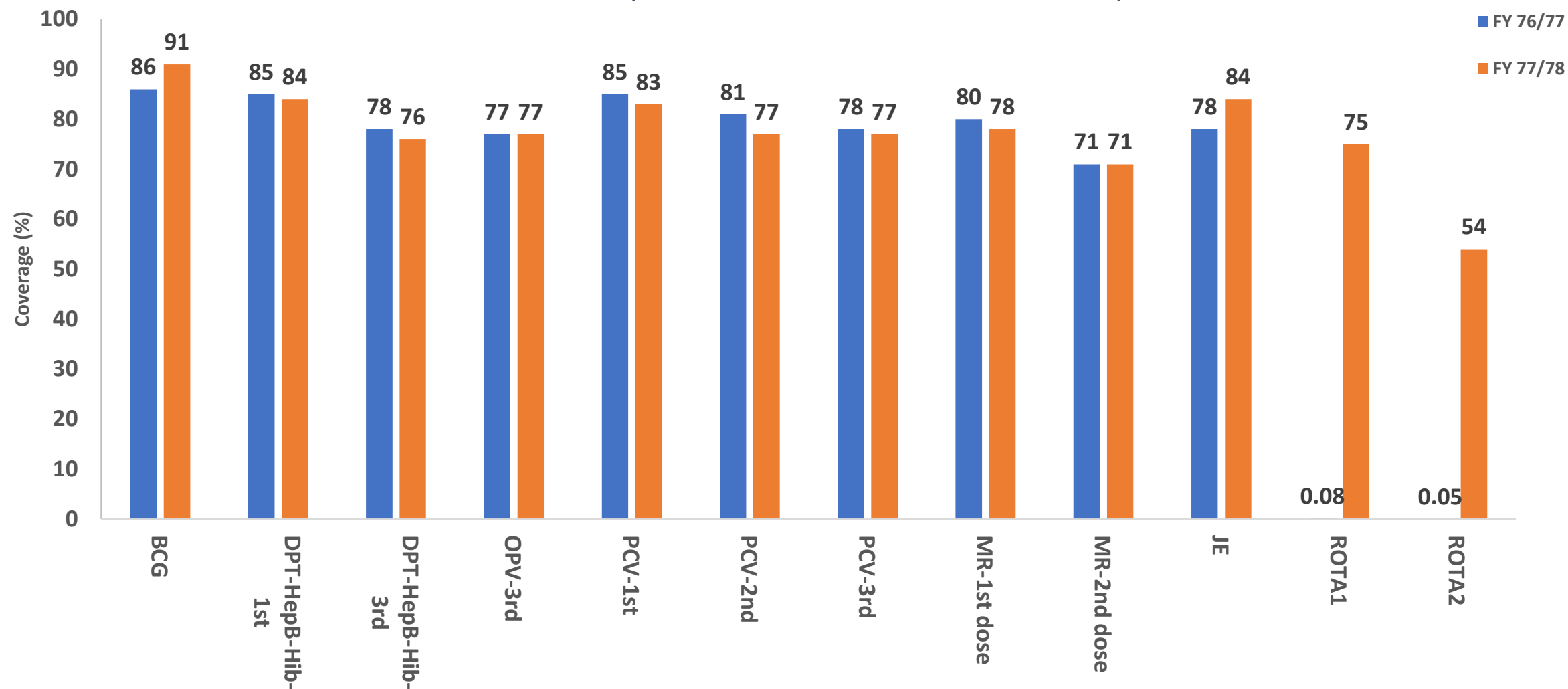
* Number of reports expected versus number of reports received till date of current fiscal year from health facilities providing immunization services

* White color are national parks, not reported yet and other community areas.

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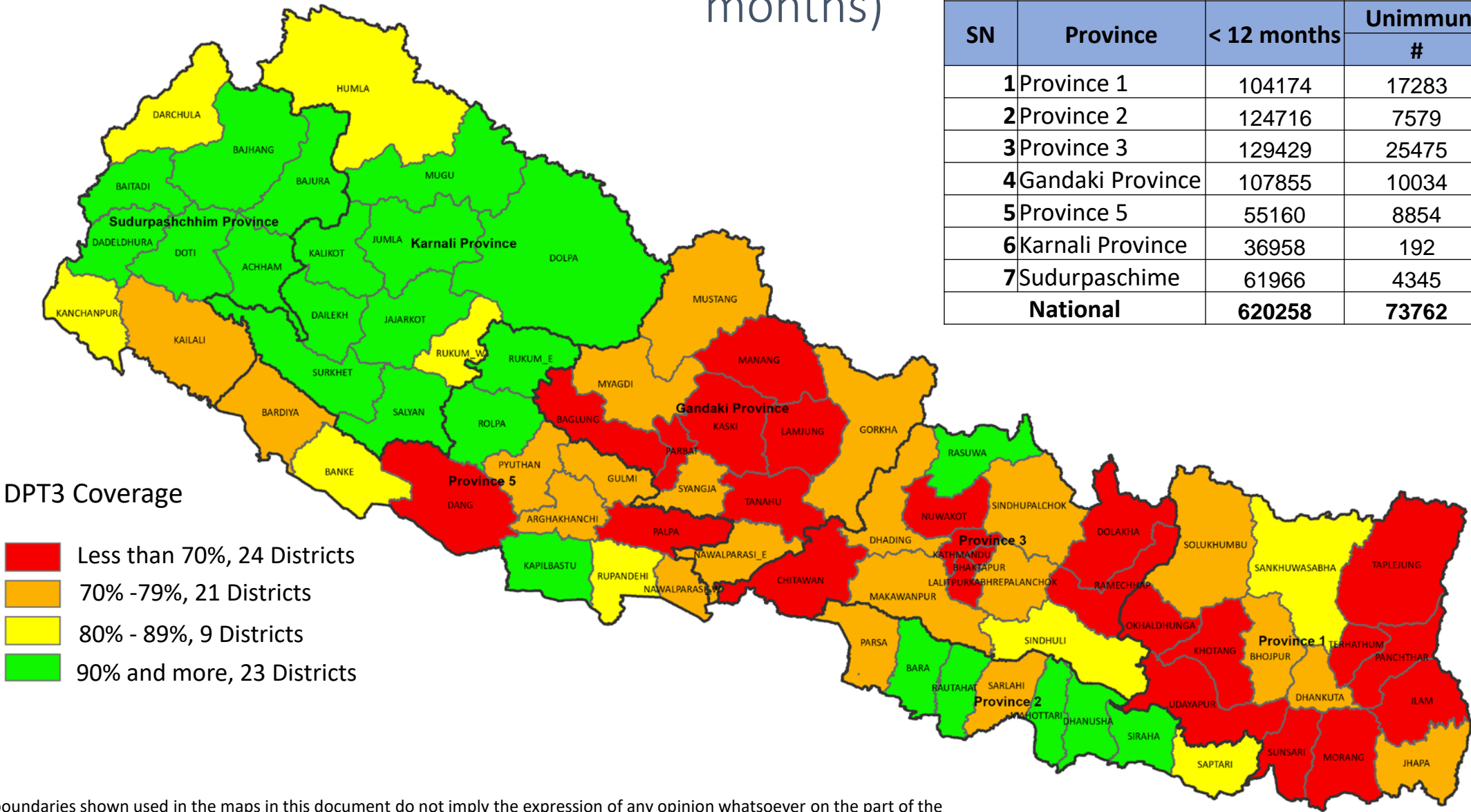
Source: HMIS, DoHS
Data as of: 24 Jan 2021

National routine immunization administrative coverage FY 2076/77 & FY 2077/78(annualize for 6 months)





Percentage of DPT-HepB-Hib3 Coverage by district for FY 2077/78(annualize for 6 months)

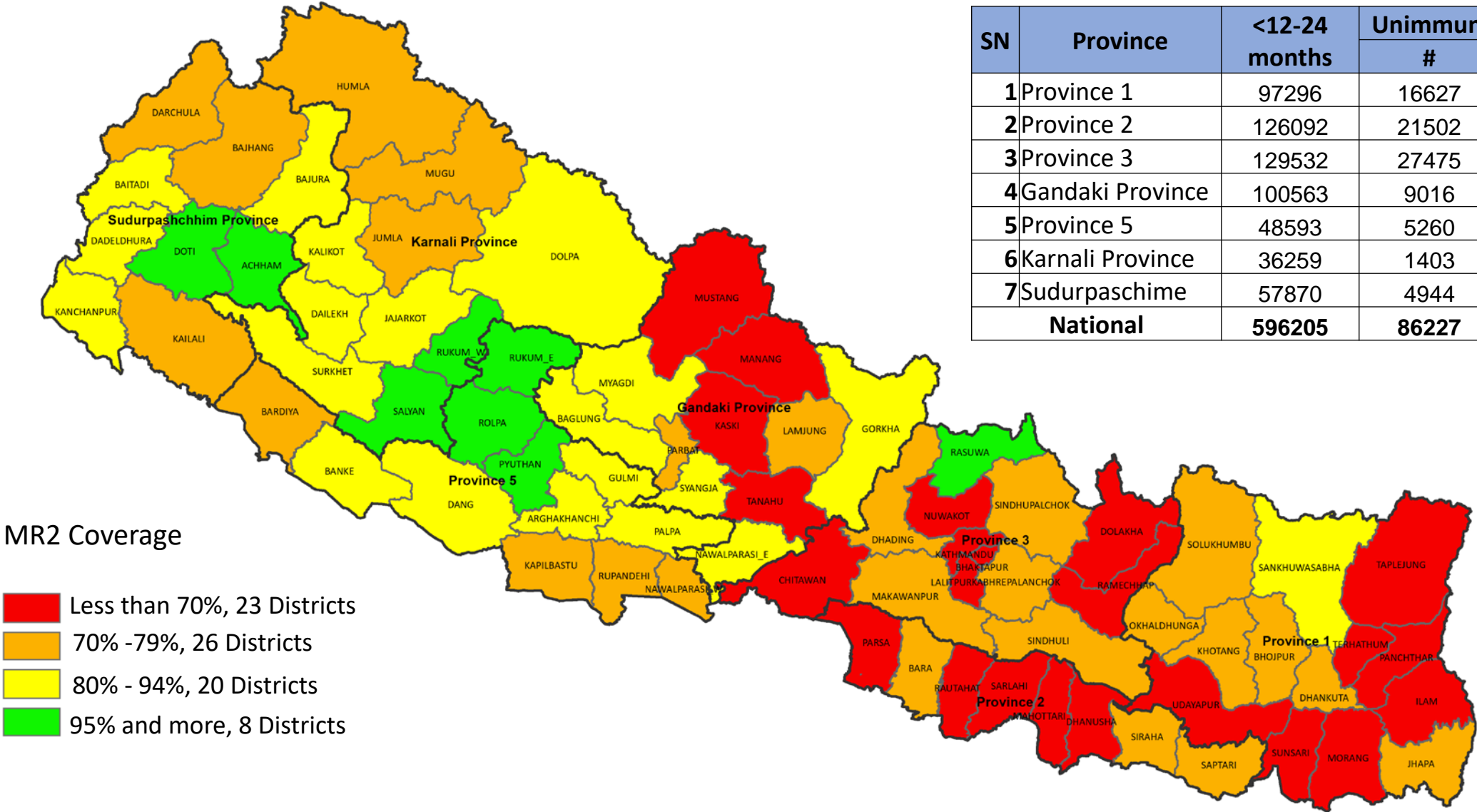


SN	Province	< 12 months	Unimmunized for DPT3	
			#	%
1	Province 1	104174	17283	23%
2	Province 2	124716	7579	10%
3	Province 3	129429	25475	35%
4	Gandaki Province	107855	10034	14%
5	Province 5	55160	8854	12%
6	Karnali Province	36958	192	0%
7	Sudurpaschime	61966	4345	6%
National		620258	73762	100%

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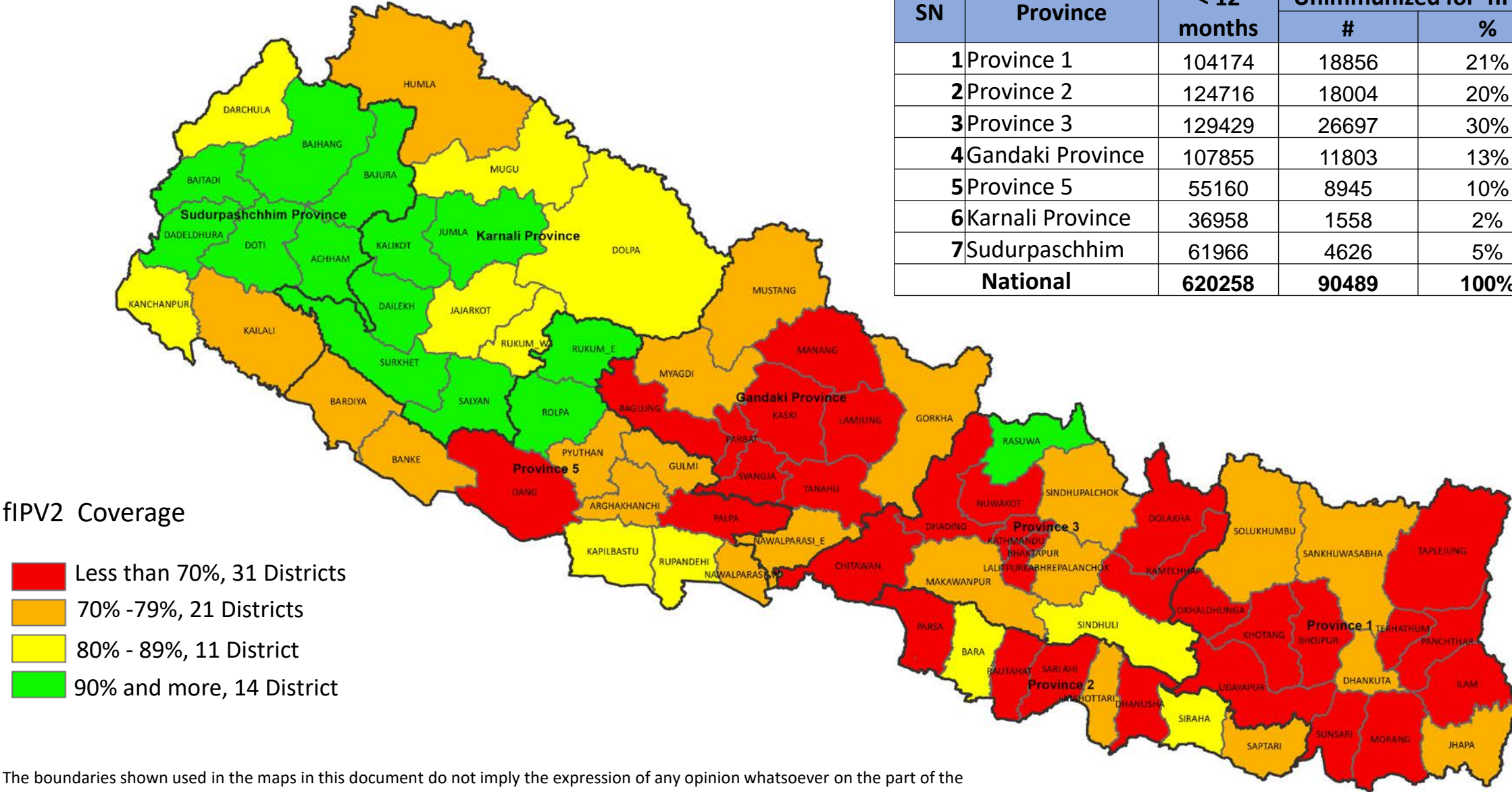
Source: HMIS, DoHS
Data as of: 24 Jan 2021

Percentage of MR2 Coverage by district for FY 2077/78(annualize for 6 months)



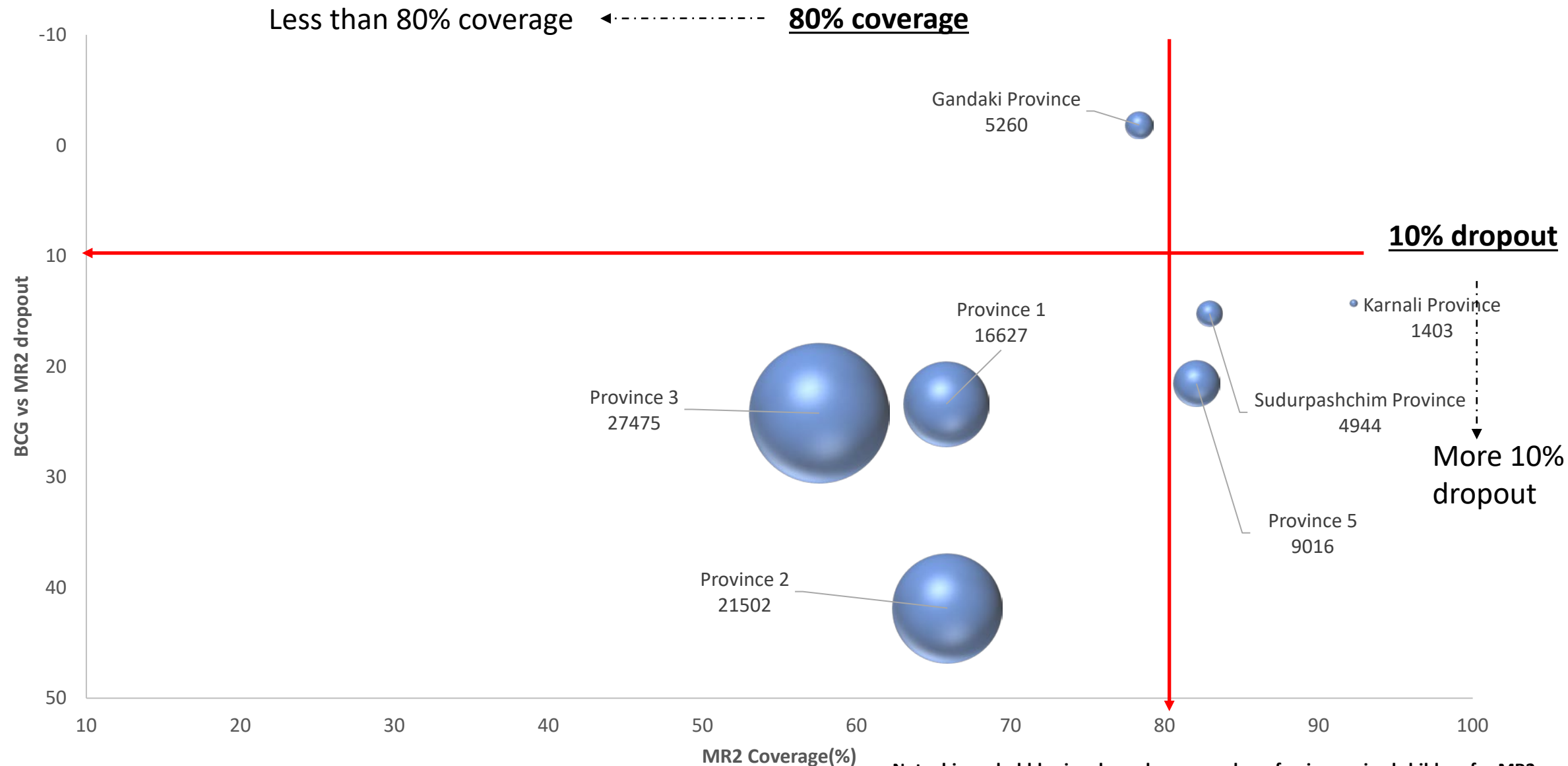
SN	Province	<12-24 months	Unimmunized for MR2	
			#	%
1	Province 1	97296	16627	19%
2	Province 2	126092	21502	25%
3	Province 3	129532	27475	32%
4	Gandaki Province	100563	9016	10%
5	Province 5	48593	5260	6%
6	Karnali Province	36259	1403	2%
7	Sudurpaschime	57870	4944	6%
National		596205	86227	100%

Percentage of fIPV2 Coverage by district for FY 2077/78(annualize for 6 months)



SN	Province	< 12 months	Unimmunized for fIPV2	
			#	%
1	Province 1	104174	18856	21%
2	Province 2	124716	18004	20%
3	Province 3	129429	26697	30%
4	Gandaki Province	107855	11803	13%
5	Province 5	55160	8945	10%
6	Karnali Province	36958	1558	2%
7	Sudurpaschhim	61966	4626	5%
National		620258	90489	100%

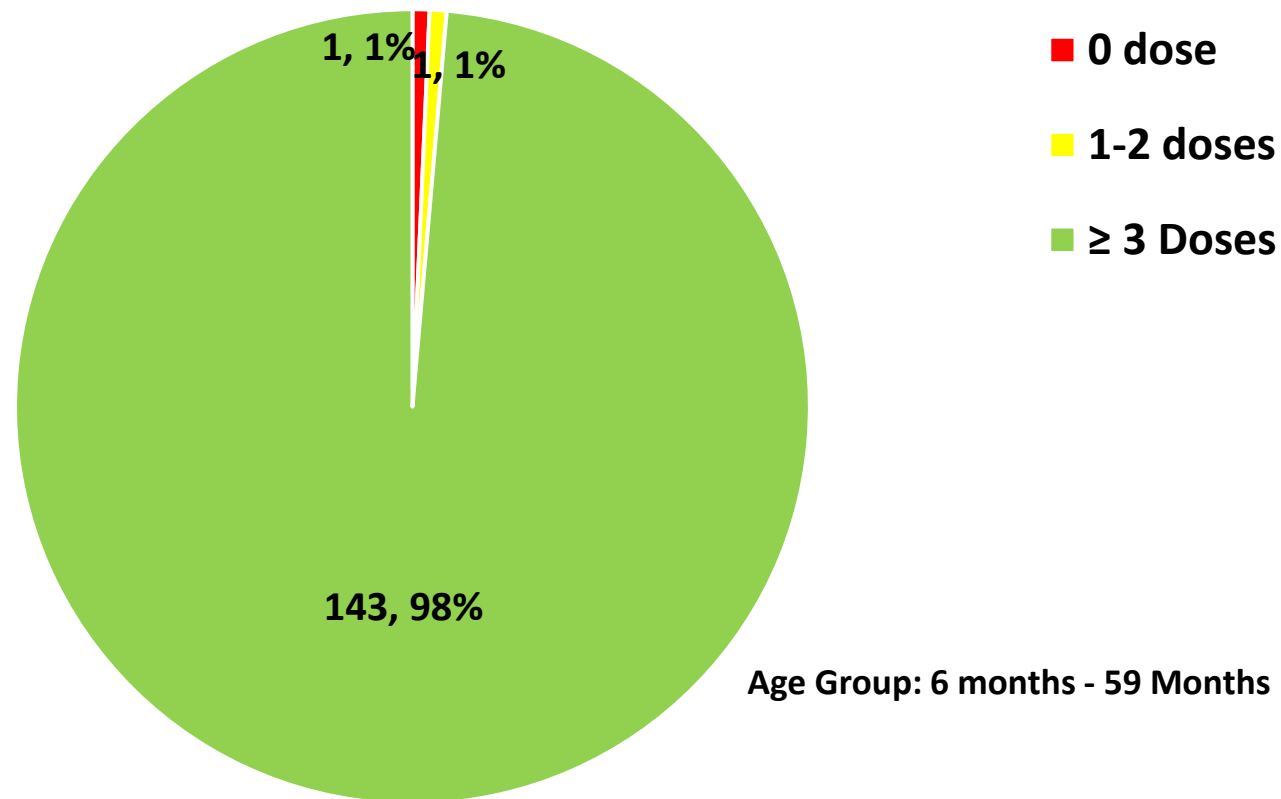
MR2 Coverage, BCG versus MR2 drop-out and Unimmunized children for MR2 by province FY 2077/78 (annualized for 6 months)



Source: HMIS, DoHS
Data as of: 24 Jan 2021

Note: bigger bubble size shows larger number of unimmunized children for MR2
Required coverage for MR2 is > 95%

OPV vaccination status among NP-AFP cases;
Age Group: 6 months - 59 Months: Nepal, 2020 (N=145)



MR vaccination status among non-measles non-rubella cases and confirmed measles cases: Nepal, 2020

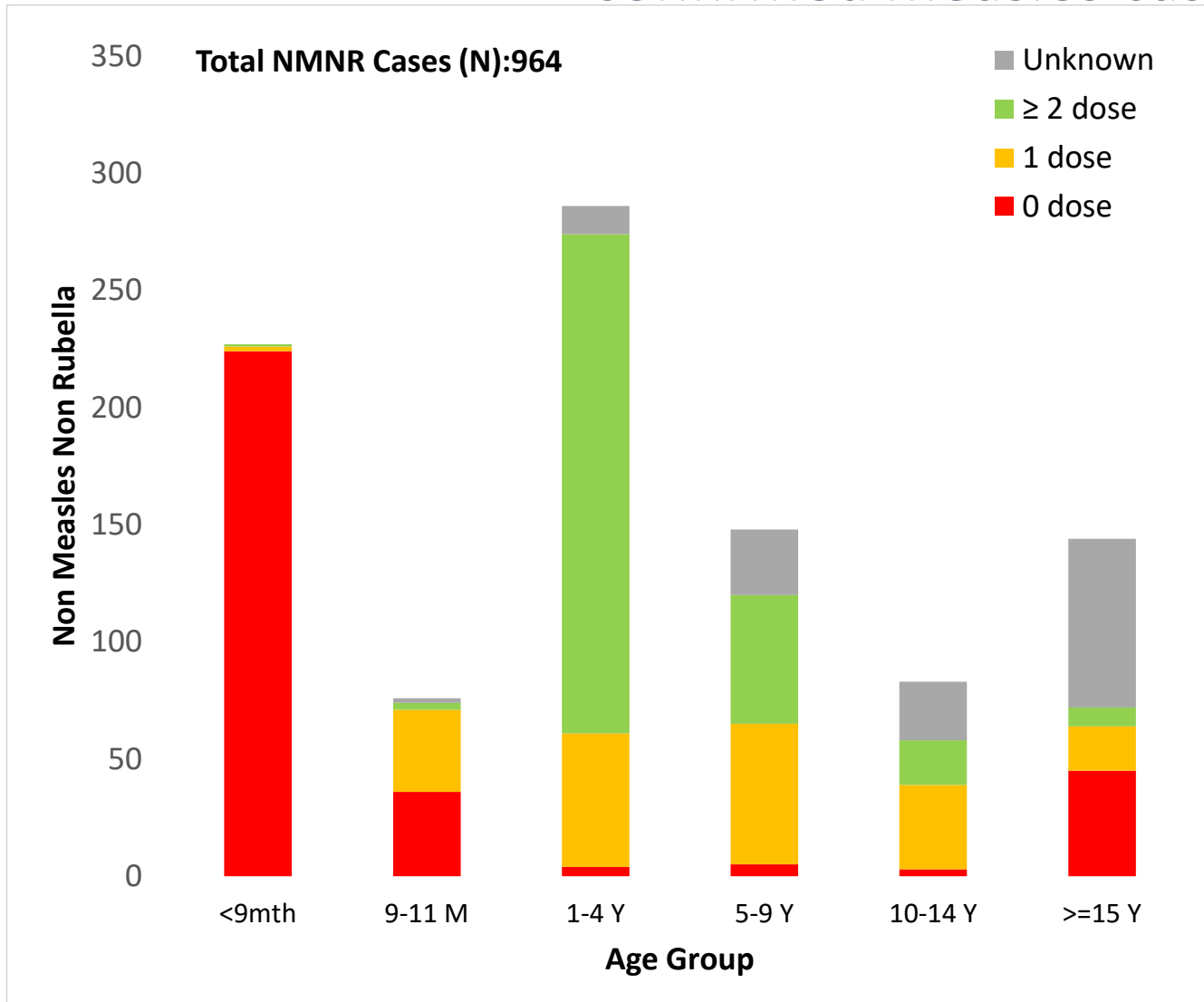


Fig 1. MR vaccination status among NMNR cases

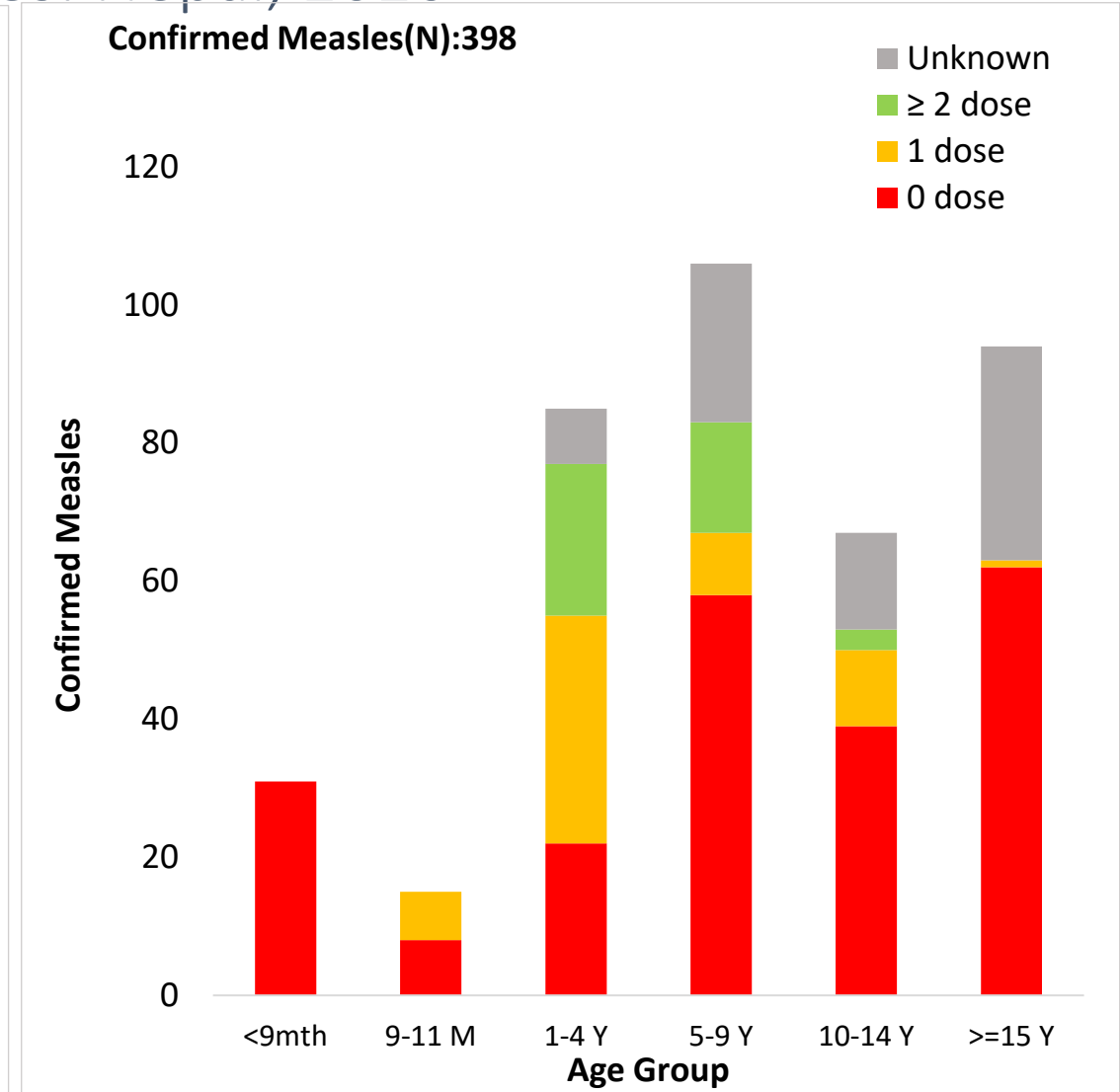


Fig 2. MR vaccination status among confirmed measles cases

Routine Immunization Monitoring Update – Jan to Dec 2020

WHO-IPD

Dec 2020

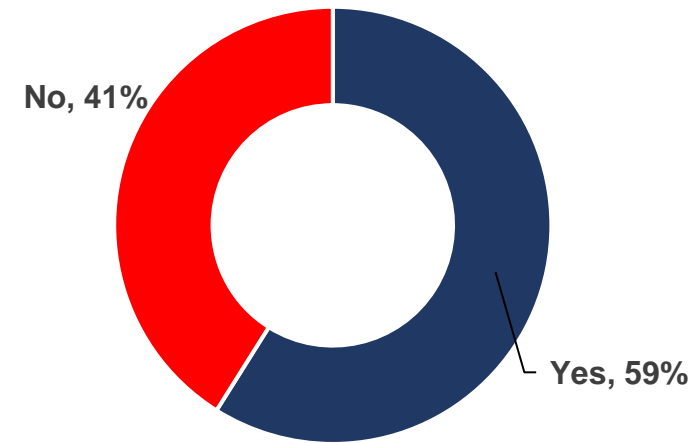
Note

- 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 2020, a total of 693 children in 97 communities were monitored. However 10327 children being monitored in MR SIA campaign despite of COVID 19 situation in all over the country.

Major findings of district level monitoring:

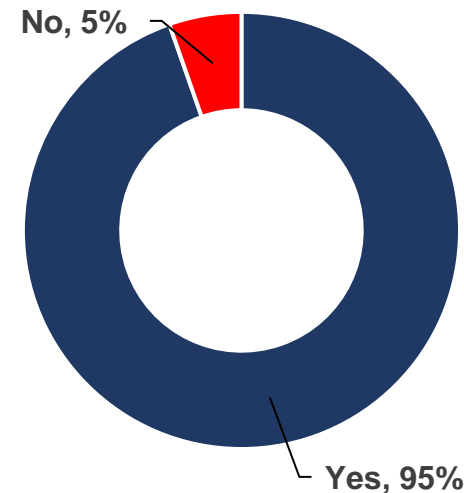
Analysis is based on monitoring conducted in total of **56 districts** over the period from Jan to Dec 2020.

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



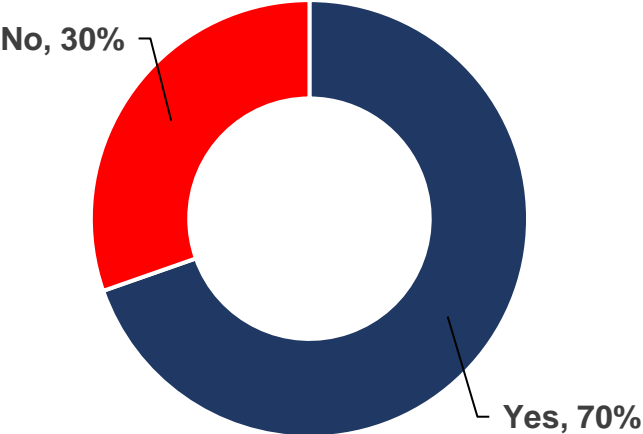
Province	No district visited	Total visits	Yes (N)	Yes (%)
Province 1	8	9	2	25
Province 2	8	14	8	100
Bagmati Province	7	12	2	29
Gandaki Province	9	32	7	78
Province 5	9	17	5	56
Karnali Province	7	12	6	86
Sudurpaschhim Province	8	21	3	38
National	56	117	33	59

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	8	9	5	63
Province 2	8	14	8	100
Bagmati Province	7	12	7	100
Gandaki Province	9	32	9	100
Province 5	9	17	9	100
Karnali Province	7	12	7	100
Sudurpaschhim Province	8	21	8	100
National	56	117	53	95

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

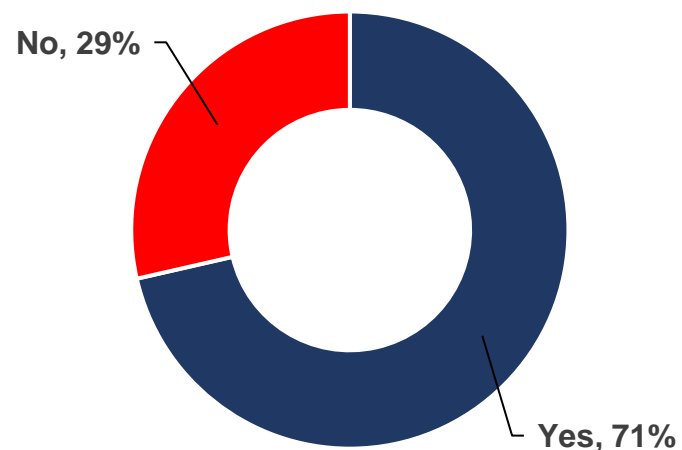


Province	No district visited	Total visits	Yes (N)	Yes (%)
Province 1	8	9	8	100
Province 2	8	14	4	50
Bagmati Province	7	12	7	100
Gandaki Province	9	32	9	100
Province 5	9	17	6	67
Karnali Province	7	12	-	0
Sudurpaschhim Province	8	21	5	63
National	56	117	39	70

Major findings of health facility level monitoring:

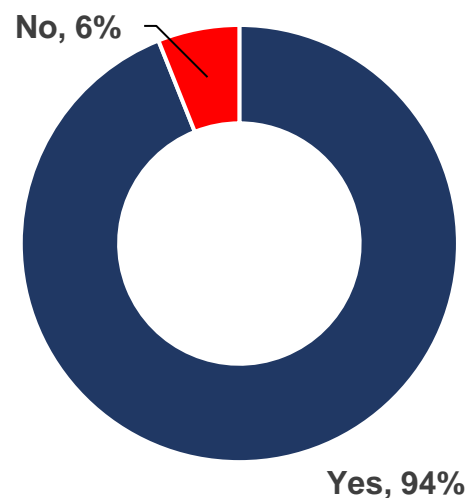
Analysis is based on monitoring conducted in total **of 265 health facilities (35 vaccine sub-stores)** in 42 districts from Jan to Dec 2020.

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



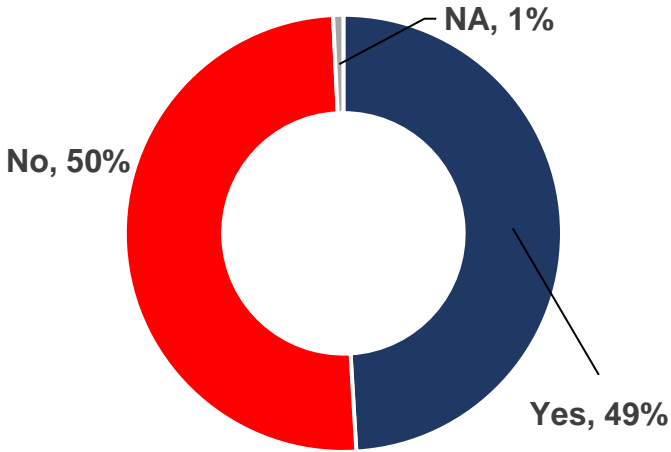
Province	No HF visited	Total visits	Yes (N)	Yes (%)
Province 1	2	2	1	50
Province 2	1	1	-	0
Bagmati Province	8	8	3	38
Gandaki Province	16	22	16	100
Province 5	2	2	-	0
Karnali Province	3	3	3	100
Sudurpaschhim Province	3	4	2	67
National	35	42	25	71

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



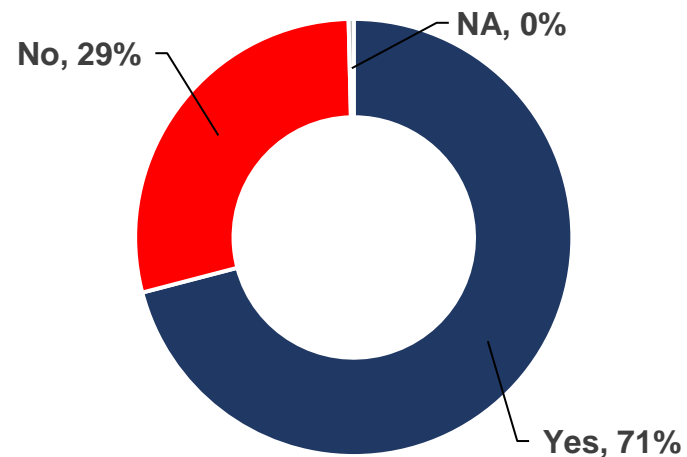
Province	No HF visited	Total visits	Yes (N)	Yes (%)
Province 1	11	11	10	91
Province 2	21	21	11	52
Bagmati Province	47	48	46	98
Gandaki Province	148	174	148	100
Province 5	15	15	14	93
Karnali Province	11	11	8	73
Sudurpaschhim Province	12	18	12	100
National	265	298	249	94

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



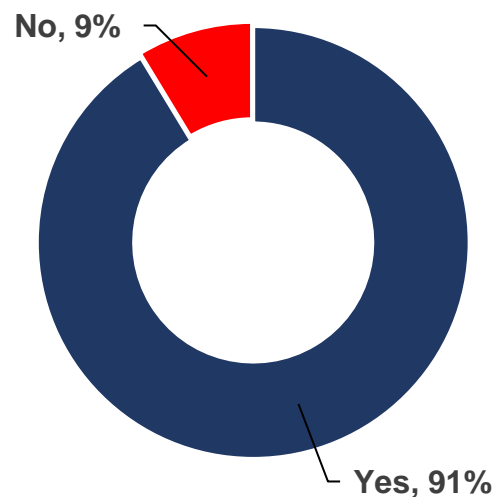
Province	No HF visited	Total visits	Yes (N)	Yes (%)
Province 1	11	11	3	27
Province 2	21	21	13	62
Bagmati Province	47	48	11	23
Gandaki Province	148	174	79	53
Province 5	15	15	9	60
Karnali Province	11	11	7	64
Sudurpaschhim Province	12	18	8	67
National	265	298	130	49

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	11	11	8	73
Province 2	21	21	8	38
Bagmati Province	47	48	34	72
Gandaki Province	148	174	110	74
Province 5	15	15	9	60
Karnali Province	11	11	7	64
Sudurpaschhim Province	12	18	12	100
National	265	298	188	71

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

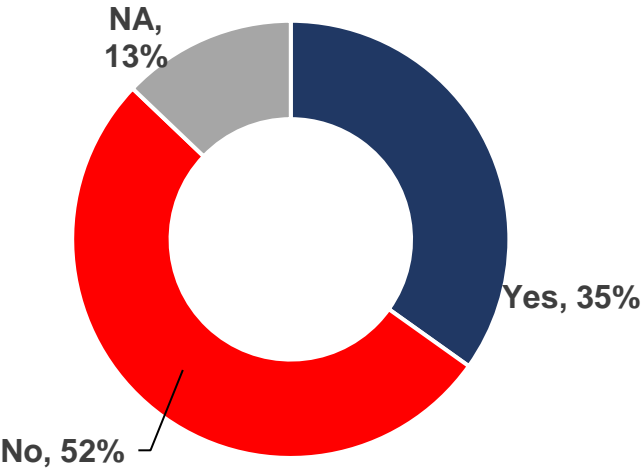


Province	No HF visited	Total visits	Yes (N)	Yes (%)
Province 1	11	11	11	100
Province 2	21	21	17	81
Bagmati Province	47	48	43	91
Gandaki Province	148	174	137	93
Province 5	15	15	12	80
Karnali Province	11	11	11	100
Sudurpaschhim Province	12	18	11	92
National	265	298	242	91

Major findings of immunization session level monitoring:

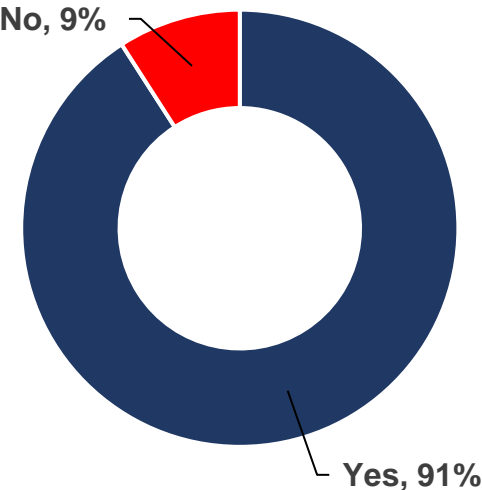
Analysis is based on monitoring conducted in total of **132 sessions of 122 health facilities** over the period from Jan to Dec 2020.

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



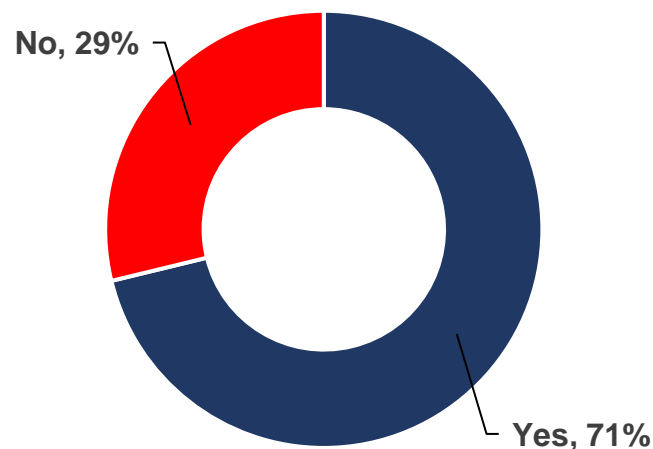
Province	Total health facilities	Total sessions	Yes (N)	Yes (%)
Province 1	12	12	5	42
Province 2	14	14	10	71
Bagmati Province	31	31	3	10
Gandaki Province	40	46	14	30
Province 5	13	14	5	36
Karnali Province	7	9	4	44
Sudurpaschhim Province	5	6	5	83
National	122	132	46	35

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



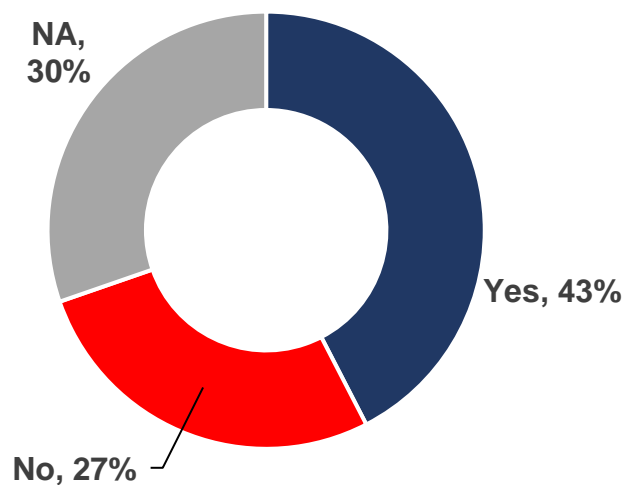
Province	Total health facilities	Total sessions	Yes (N)	Yes (%)
Province 1	12	12	10	83
Province 2	14	14	10	71
Bagmati Province	31	31	25	81
Gandaki Province	40	46	46	100
Province 5	13	14	14	100
Karnali Province	7	9	9	100
Sudurpaschhim Province	5	6	6	100
National	122	132	120	91

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



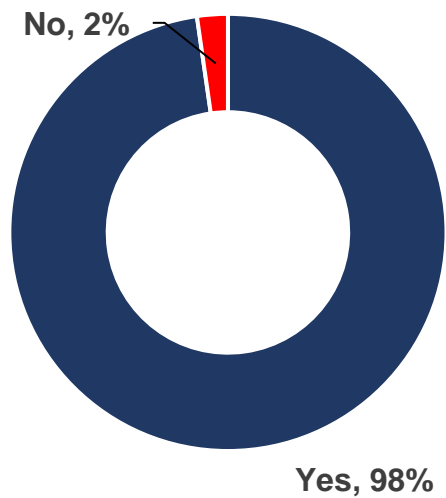
Province	Total health facilities	Total sessions	Yes (N)	Yes (%)
Province 1	12	12	9	75
Province 2	14	14	5	36
Bagmati Province	31	31	24	77
Gandaki Province	40	46	38	83
Province 5	13	14	8	57
Karnali Province	7	9	7	78
Sudurpaschhim Province	5	6	3	50
National	122	132	94	71

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



Province	Total health facilities	Total sessions	Yes (N)	Yes (%)
Province 1	12	12	8	67
Province 2	14	14	7	50
Bagmati Province	31	31	13	42
Gandaki Province	40	46	16	35
Province 5	13	14	8	57
Karnali Province	7	9	2	22
Sudurpaschhim Province	5	6	2	33
National	122	132	56	42

Mothers/guardians are informed about next dose visits

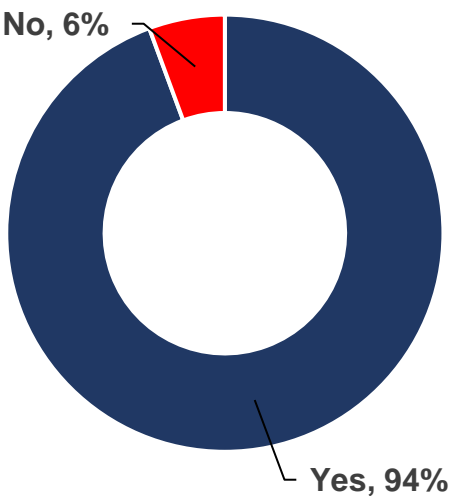


Province	Total health facilities	Total sessions	Yes (N)	Yes (%)
Province 1	12	12	12	100
Province 2	14	14	14	100
Bagmati Province	31	31	31	100
Gandaki Province	40	46	44	96
Province 5	13	14	14	100
Karnali Province	7	9	8	89
Sudurpaschhim Province	5	6	6	100
National	122	132	129	98

Major findings of quick immunization assessment in high risk areas

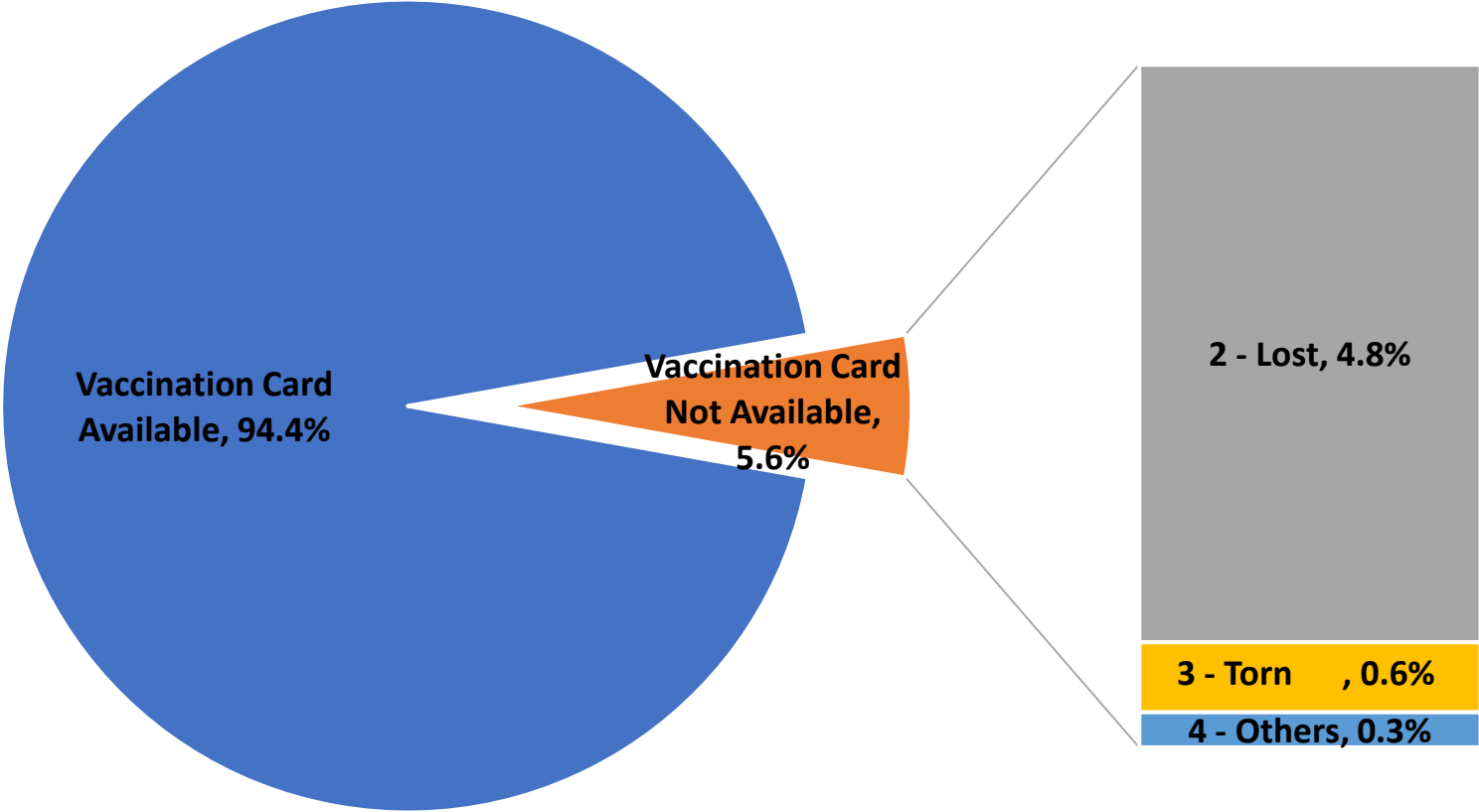
Analysis is based on monitoring conducted in **693 Children** in
97 communities across the country from Jan to Dec 2020.

Immunization card availability



Province	Total Communities	Total Children	Yes (N)	Yes (%)
Province 1	-	-	-	-
Province 2	11	112	108	96
Bagmati Province	29	121	113	93
Gandaki Province	29	233	226	97
Province 5	8	72	66	92
Karnali Province	3	27	23	85
Sudurpaschhim Province	17	128	118	92
National	97	693	654	94

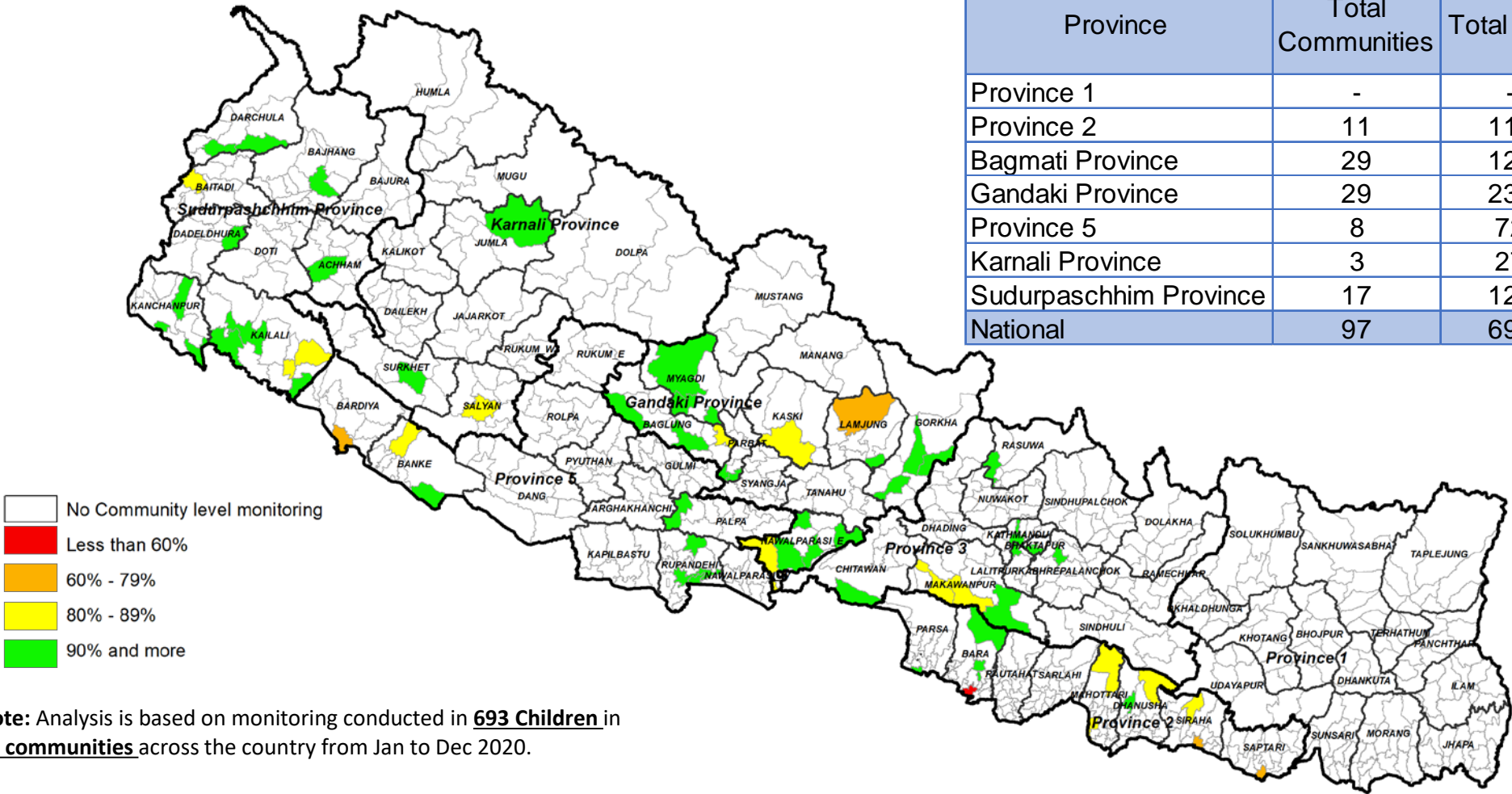
Reasons for not having immunization card



Card available/Reason for card Not available	Number of Children
Card Available	654
1 - not received from HF	0
2 - Lost	33
3 - Torn	4
4 - Others	2



Age-appropriate vaccination status (%) among children aged 6 weeks to 23 months in the community found during Quick Immunization Assessment, Jan to Dec 2020.



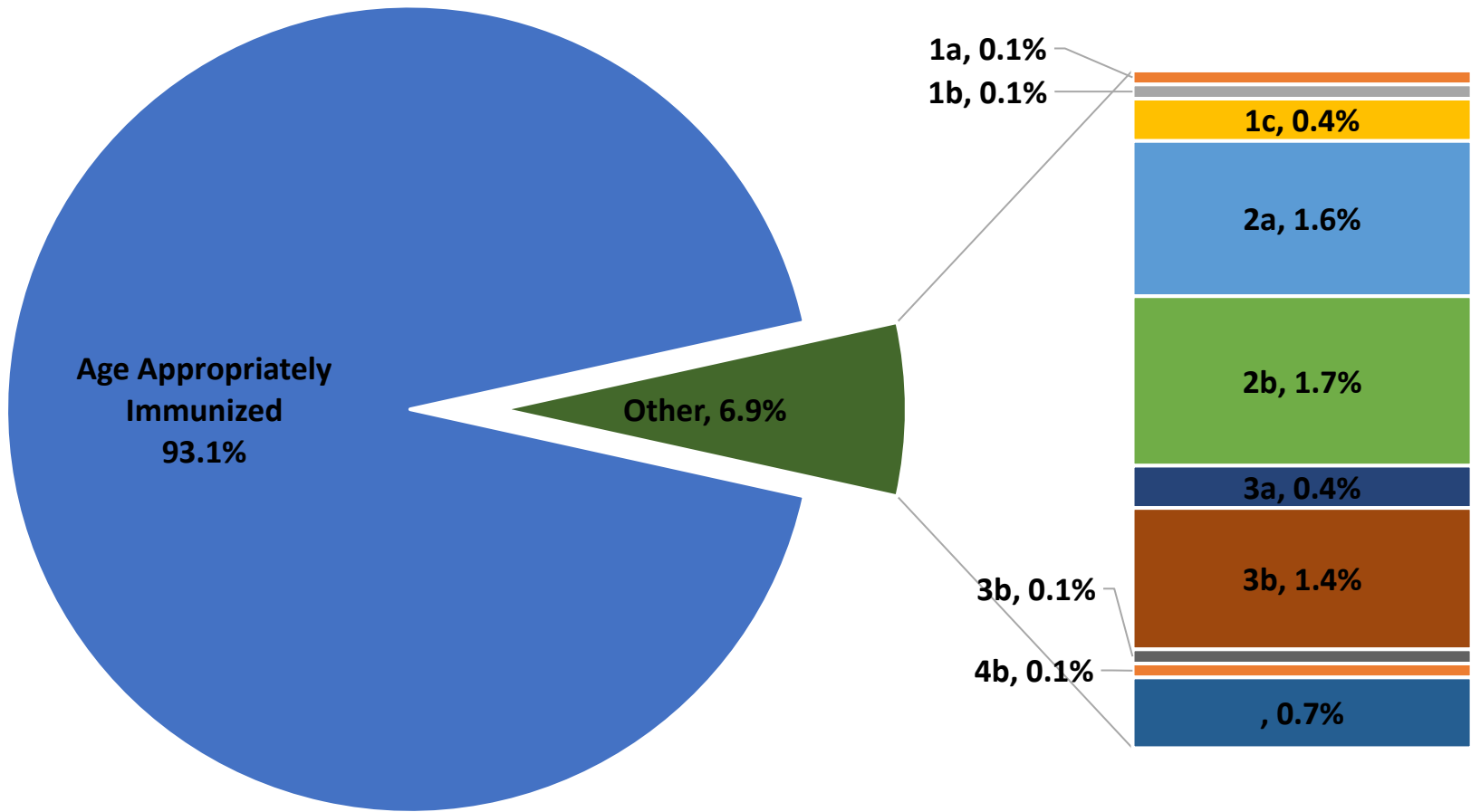
Province	Total Communities	Total visits	Yes (N)	Yes (%)
Province 1	-	-	-	-
Province 2	11	112	90	80
Bagmati Province	29	121	115	95
Gandaki Province	29	233	224	96
Province 5	8	72	66	92
Karnali Province	3	27	25	93
Sudurpaschhim Province	17	128	125	98
National	97	693	645	93

Note: Analysis is based on monitoring conducted in **693 Children** in **97 communities** across the country from Jan to Dec 2020.

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.

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= 48)



Code	Reasons	N
1a	1a. Vaccination site too far	1
1b	1b. Vaccinator not available	1
1c	1c. Vaccines not available	3
2a	2a. Mother does not know total no. of contact for complete immunization	11
2b	2b. Mother does not know the age for vaccination of different vaccine	12
3a	3a. Child not at home	3
3b	3b. Child sick	10
3b	3b. Fear of AEFI	1
4b	4b. Religious	1
	Reason unknown	5

Note: Analysis is based on monitoring conducted in **693 Children** in **97 communities** across the country from Jan to Dec 2020

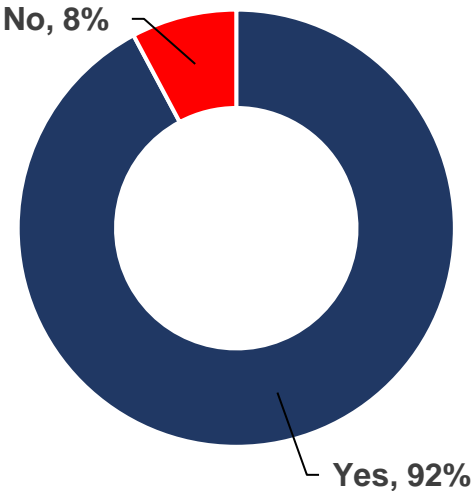
The % given is for being age-appropriately vaccinated or not for BCG, DPT-HepB-Hib doses, OPV doses, PCV doses, MR doses, and JEV. If children have missed any of the given vaccines or doses as per age, then they are categorized as not being age appropriately vaccinated. These figures should not be used 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= 48)

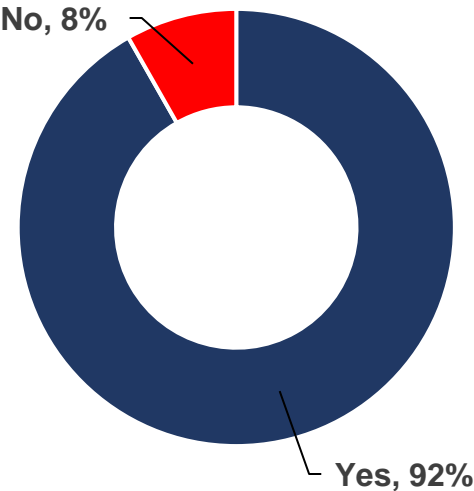
Province 1		Province 2		Province 3		Gandaki Province		Province 5		Karnali Province		Sudurpaschhim Province	
N	%	N	%	N	%	N	%	N	%	N	%	N	%
0	0	0	0	1	17	0	0	0	0	0	0	0	0
0	0	0	0	1	17	0	0	0	0	0	0	0	0
0	0	1	5	0	0	1	11	0	0	0	0	1	33
0	0	6	27	0	0	3	33	1	17	1	50	0	0
0	0	9	41	0	0	1	11	1	17	1	50	0	0
0	0	1	5	1	17	1	11	0	0	0	0	0	0
0	0	0	0	2	33	2	22	4	67	0	0	2	67
0	0	0	0	0	0	1	11	0	0	0	0	0	0
0	0	0	0	1	17	0	0	0	0	0	0	0	0
0	0	5	23	0	0	0	0	0	0	0	0	0	0
0	0	22	100	6	100	9	100	6	100	2	100	3	100

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



Province	Total Communities	Total Children	Yes (N)	Yes (%)
Province 1	-	-	-	-
Province 2	11	112	94	84
Bagmati Province	29	121	102	84
Gandaki Province	29	233	226	97
Province 5	8	72	67	93
Karnali Province	3	27	22	81
Sudurpaschhim Province	17	128	128	100
National	97	693	639	92

Child delivery in hospital/health facility (institutional)



Province	Total Communities	Total Children	Yes (N)	Yes (%)
Province 1	-	-	-	-
Province 2	11	112	90	80
Bagmati Province	29	121	102	84
Gandaki Province	29	233	228	98
Province 5	8	72	67	93
Karnali Province	3	27	21	78
Sudurpaschhim Province	17	128	128	100
National	97	693	636	92