

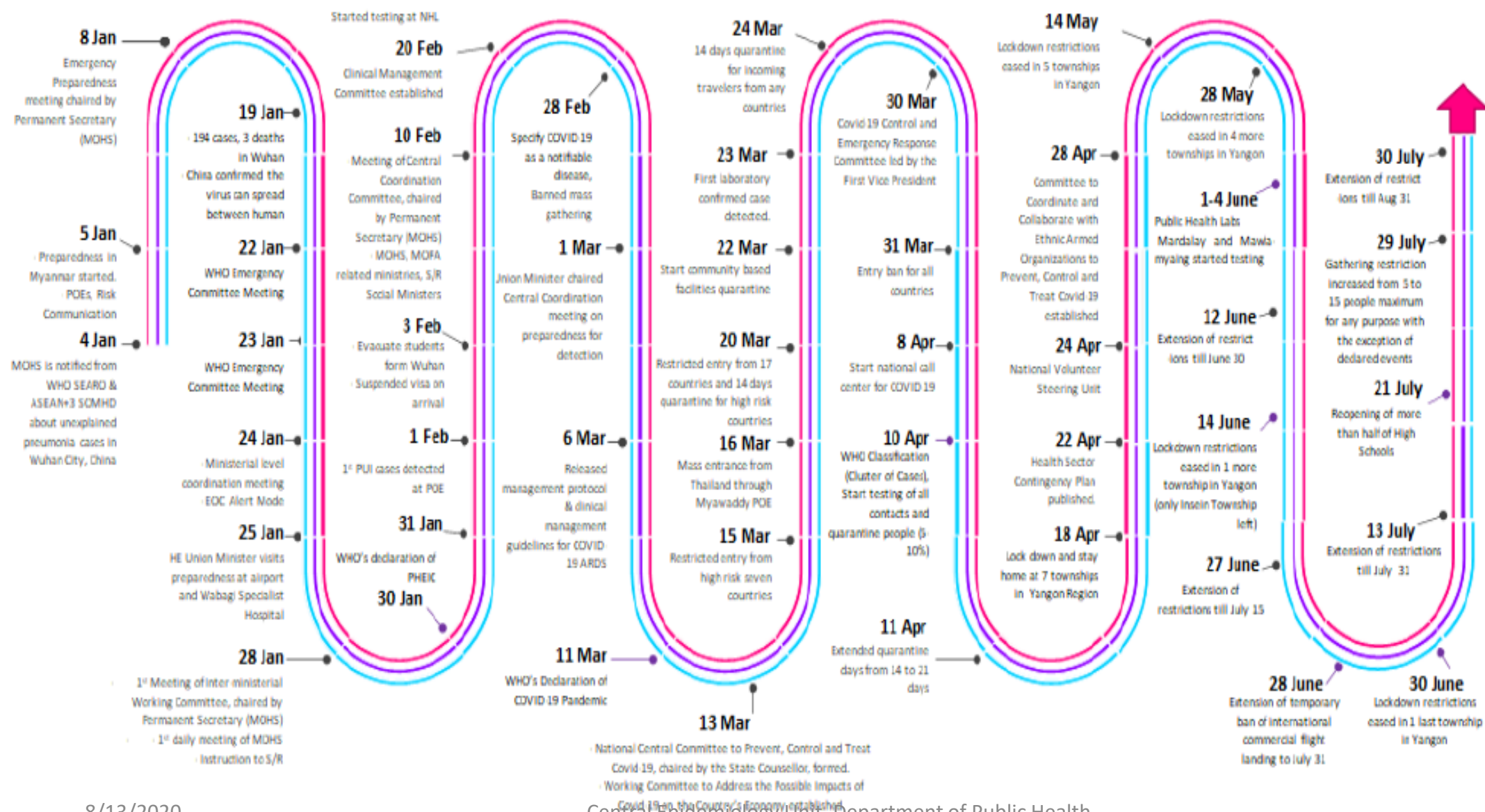


# Epidemiological situation of COVID-19 in Myanmar

(as of 13-8-2020)

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Director (Epidemiology)  
Department of Public Health

# Timeline of Preparedness and Response to COVID-19 in Myanmar (as of 10.8.2020)

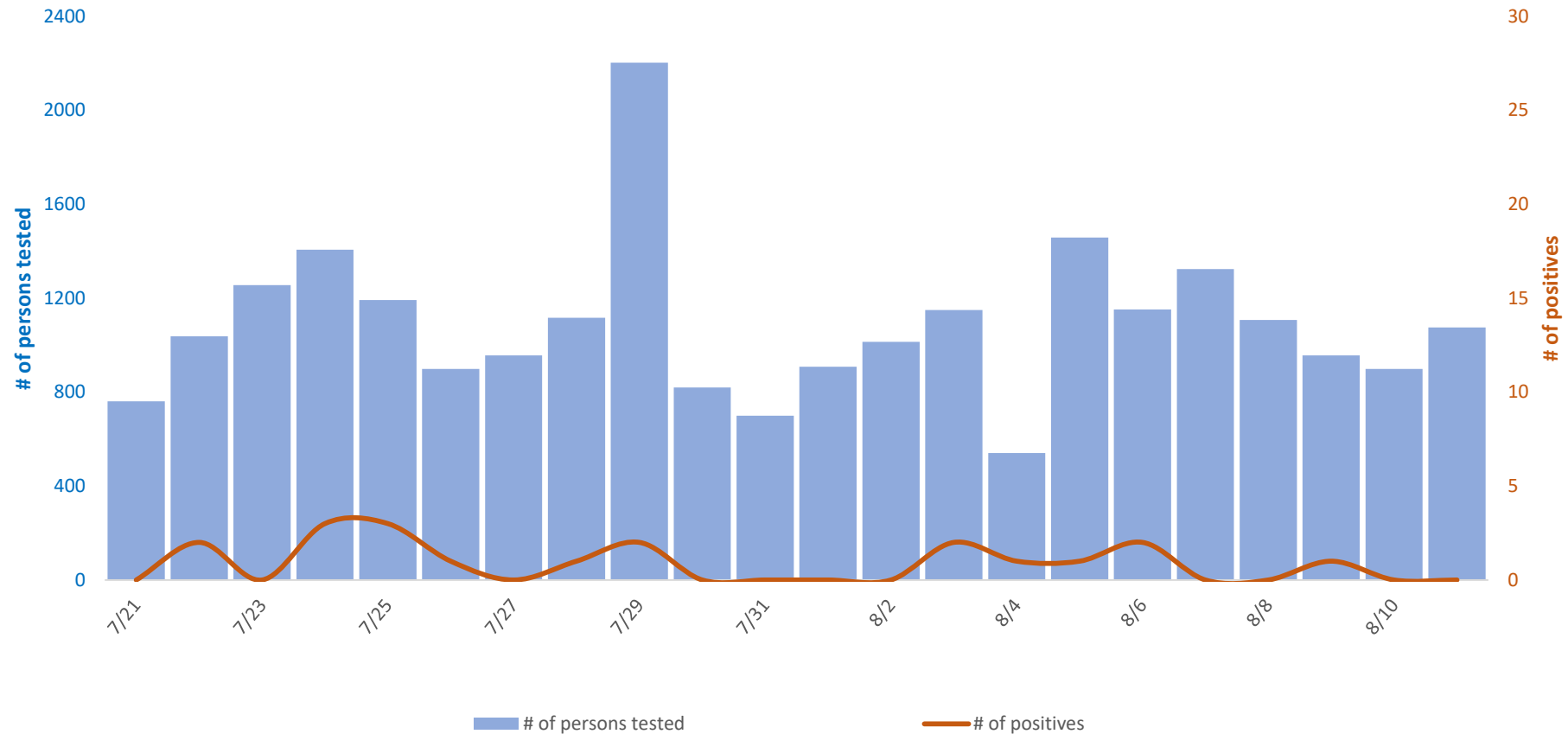


# Positive rates among tested persons since the beginning of this outbreak (as of 12/8/2020)

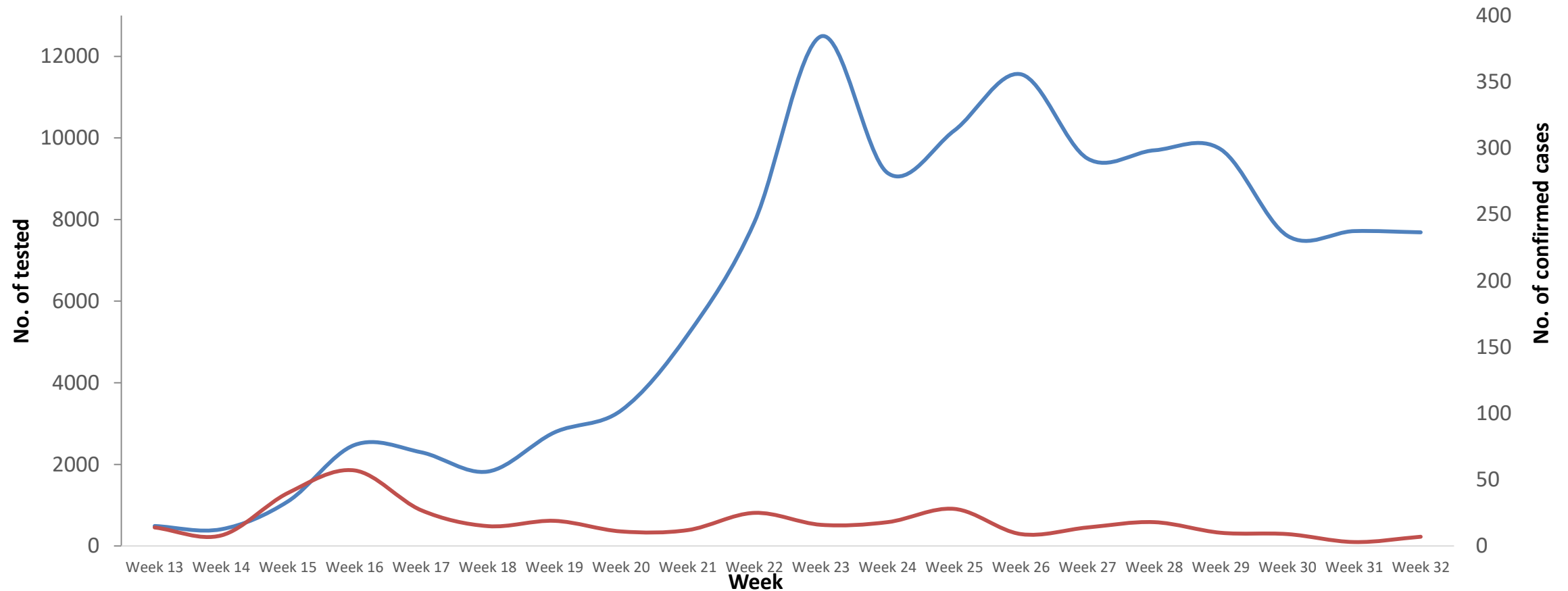
Type of persons tested	# of persons tested	# of positive cases	Positive rate (%)
Contacts	3,555	109	3.1
PUI*	8,063	63	0.8
Quarantined person	117,183	188	0.2
Total	128,801	360	0.28

\*PUI from testing data includes those who are tested for other purposes.

# Daily trend of # of persons tested and # of positives for COVID-19 in 3 weeks



# No. of persons tested for COVID-19 and confirmed cases by week (as of week 32) (n=128,801)

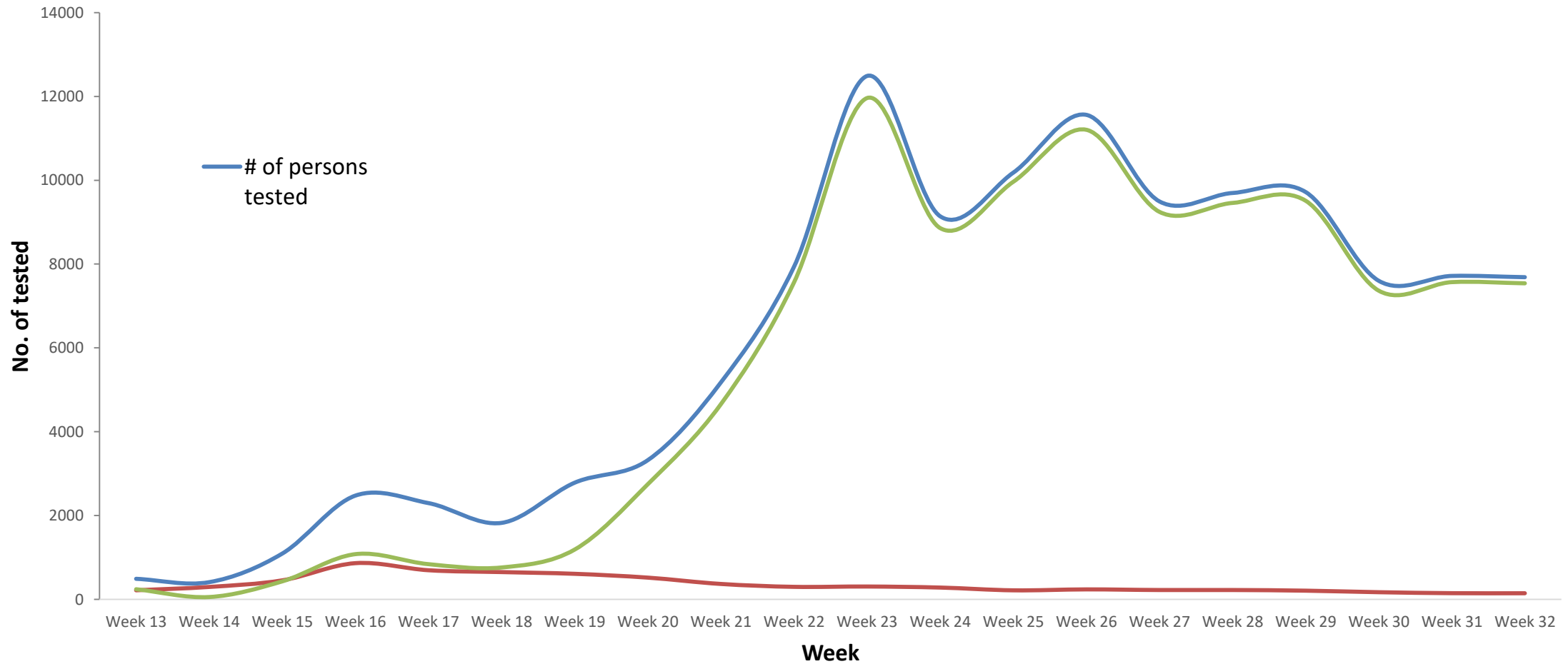


Data source: NHL

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# PUIs and quarantined persons tested COVID-19 and confirmed cases by week (as of week 32) (n=128,801)

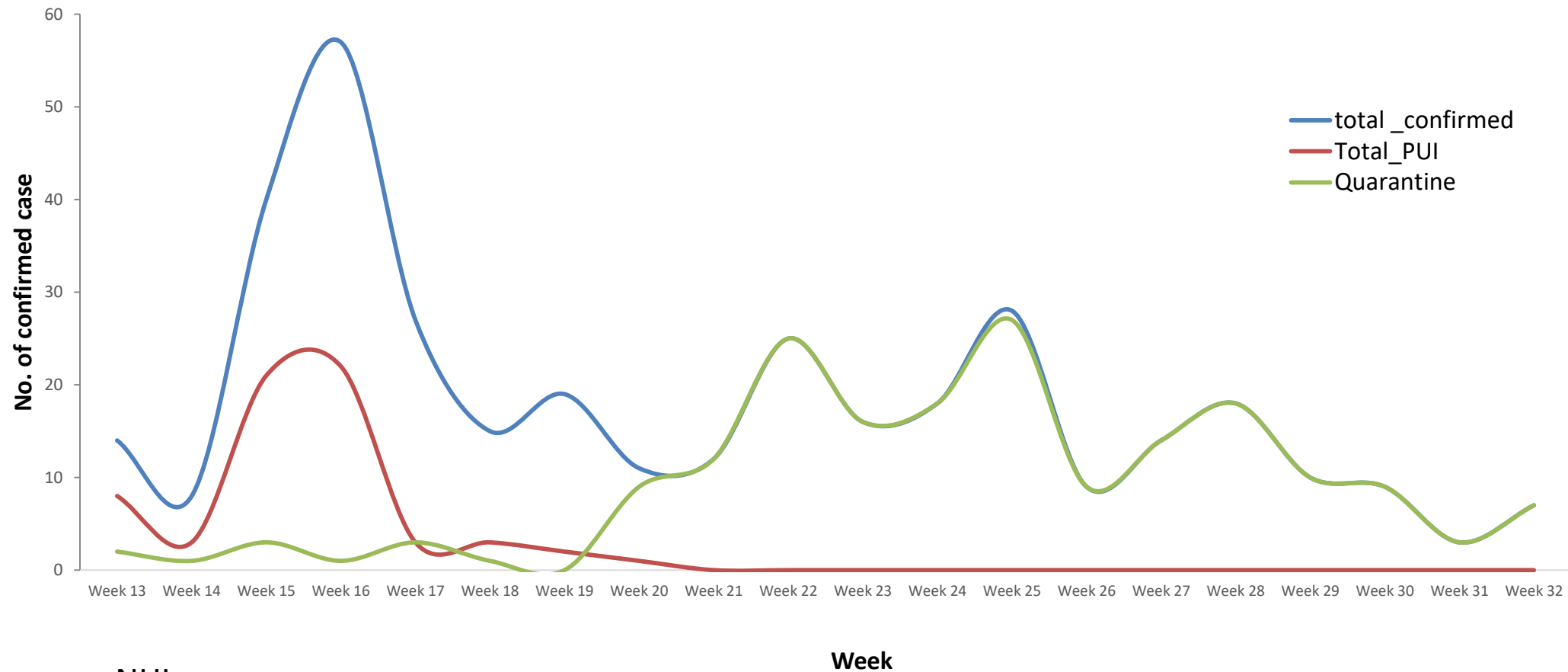


Data source: NHL

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# Confirmed cases among PUIs and quarantined persons tested COVID-19 and confirmed cases by week (as of week 32) (n=361)

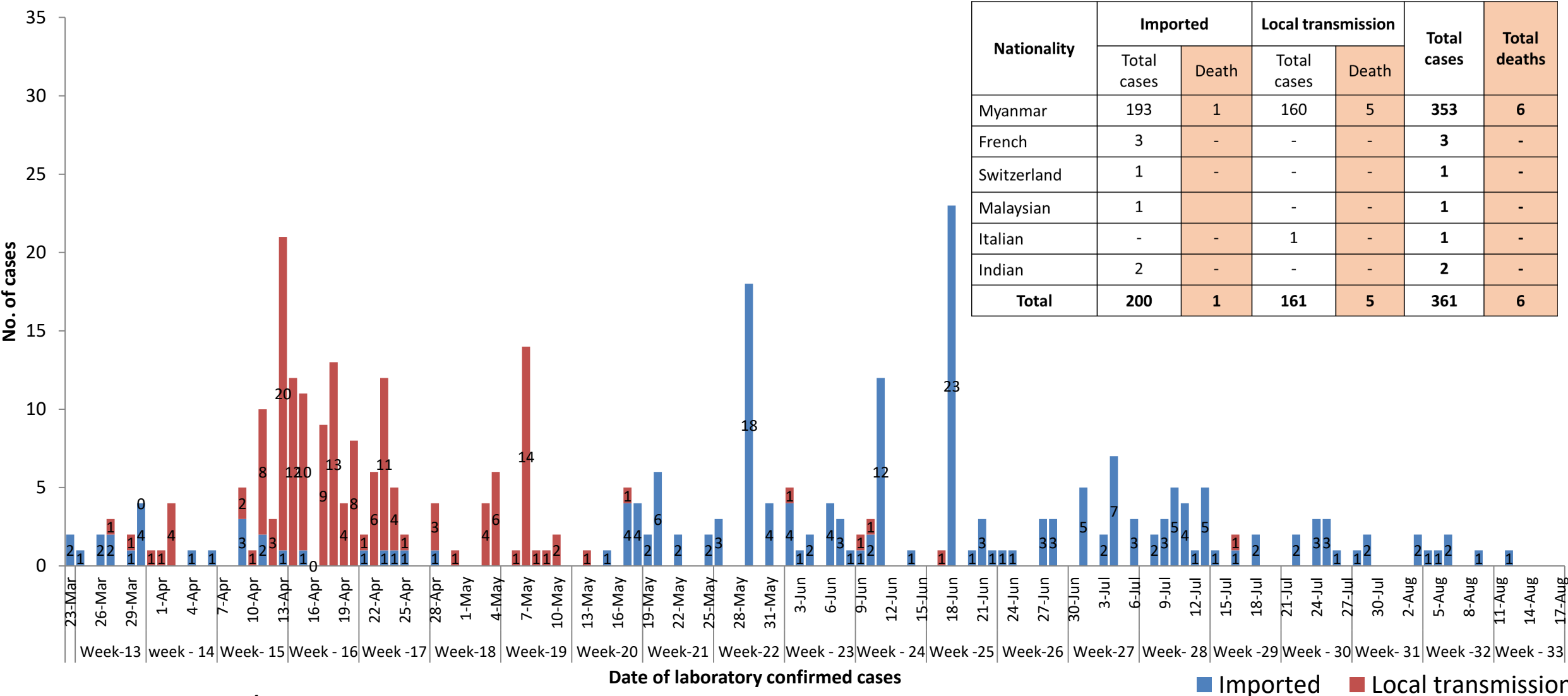


Data source: NHL



# Types of COVID-19 confirmed cases by date of laboratory confirmed

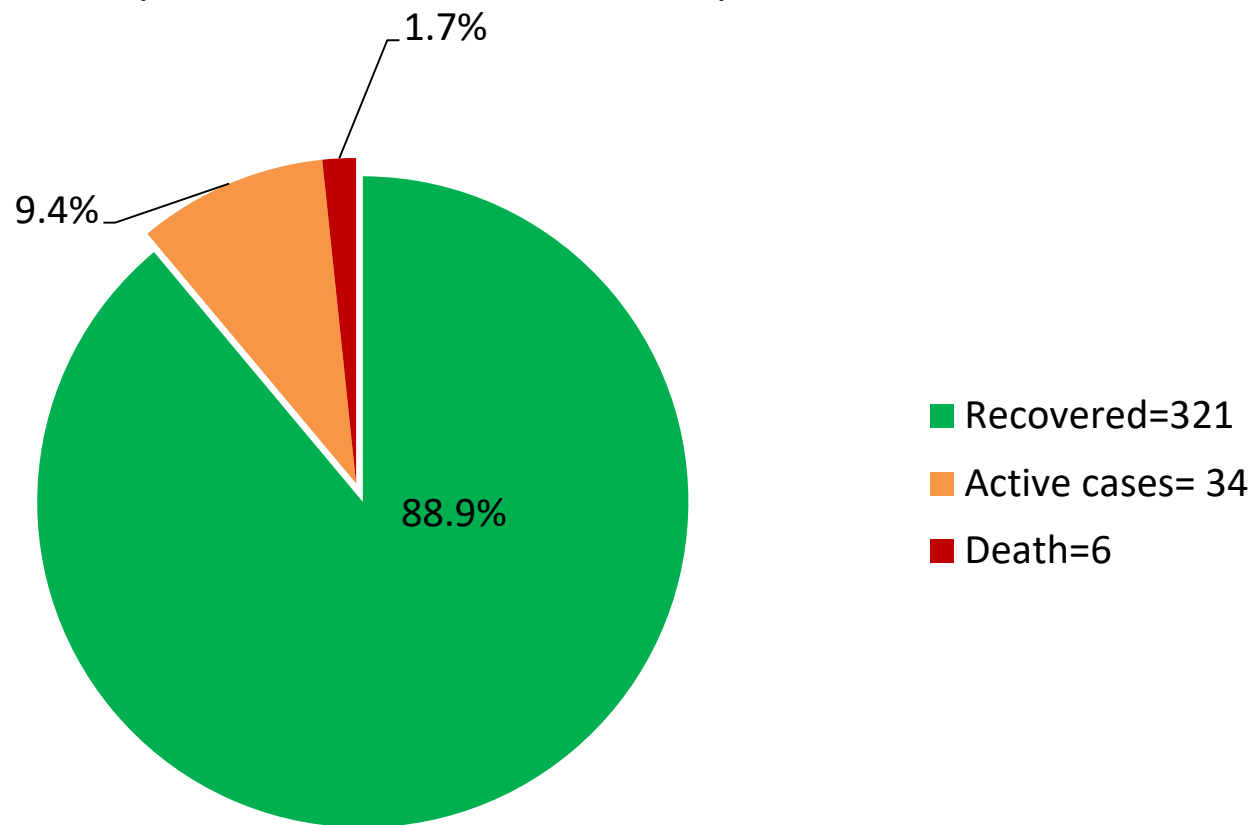
( 23.3.2020 – 12-8-2020),n=361







## Current situation of COVID-19 confirmed cases ( 23.3.2020 – 12-8-2020) , n=361



Data source: CEU, DMS, S/R PH & DMS



# COVID-19 confirmed cases and death by State/Region ( 23.3.2020 – 12-8-2020) , n=361

No.	State/Region	Confirmed case	Recovered	Deaths	Active cases
1.	Yangon	254(1 new)	220 ( 1 new)	5	29
2.	Kayin	29	29 ( 2 new)	-	0
3.	Chin	17	13	-	4
4.	Rakhine	16	16	-	0
5.	Sagaing	9	9	-	0
6.	Bago	9	8	1	0
7.	Shan(South)	4	4	-	0
8.	Mandalay	4	4	-	0
9.	Shan(East)	3	3	-	0
10.	Shan(North)	3	3	-	0
11.	Magway	3	3	-	0
12.	Naypyitaw	2	2	-	0
13.	Ayeyarwaddy	2	2	-	0
14.	Kachin	2	2	-	0
15.	Mon	2	2	-	0
16.	Thanintharyi	2	1	-	1
17.	Kayar	-	-	-	-
<b>Total</b>		<b>361 ( 1 new)</b>	<b>321( 3 new)</b>	<b>6</b>	<b>34</b>

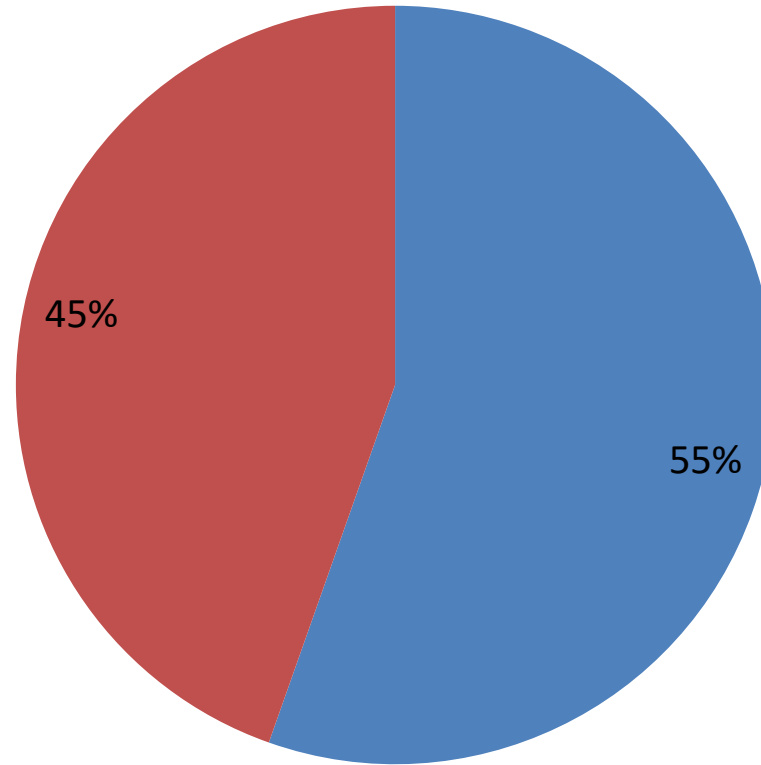
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Data source: CEU, DMS, S/R PH & DMS

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## Types of transmission of COVID-19 confirmed cases (23.3.2020-12.8.2020), n= 361



■ Imported = 200    ■ Local transmission = 161

Data source: CEU, DMS, S/R PH & DMS



# COVID-19 confirmed cases by State/Region with transmission classification(as of 12.8.2020)

No.	State/Region	Confirmed cases	Transmission classification	Date of last laboratory confirmed	Days since last reported cases
1.	Yangon	254	Local transmission+ importation	12.8.2020	0
2.	Kayin	29	Imported cases only	28.7.2020	15
3.	Rakhine	17	Local transmission+ importation	25.7.2020	17
4.	Chin	16	Local transmission+ importation	6.8..2020	6
5.	Sagaing	9	Local transmission+ importation	4.6.2020	69
6.	Bago	9	Local transmission+ importation	1.7.2020	42
7.	Shan(South)	4	Local transmission+ importation	9.6.2020	64
8.	Mandalay	4	Local transmission+ importation	16.7.2020	27
9.	Shan(East)	3	Local transmission only	20.4.2020	114
10.	Shan(North)	3	Local transmission+ importation	2.6.2020	71
11.	Magway	3	Imported cases only	7.6.2020	66
12.	Naypyitaw	2	Local transmission+ importation	4.5.2020	100
13.	Ayeyerwaddy	2	Imported cases only	29.5.2020	75
15.	Kachin	2	Local transmission only	10.6.2020	63
14.	Mon	2	Imported case only	20.6.2020	53
16.	Thantingharyi	2	Imported case only	29.7..2020	14

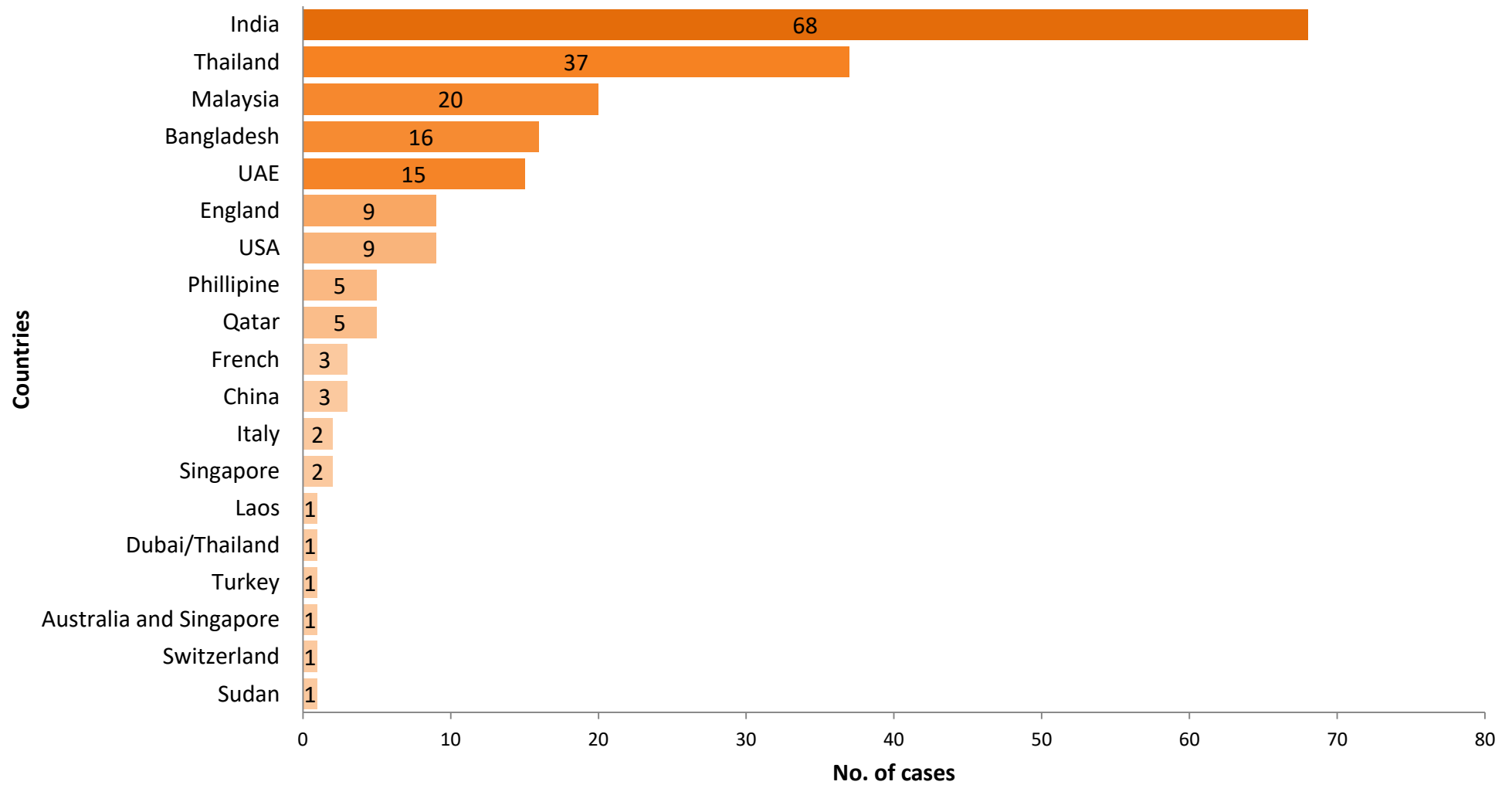
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# Travelling history of confirmed imported cases ( 23.3.2020 – 12-8-2020), n= 200



Data source: CEU, DMS, S/R PH & DMS

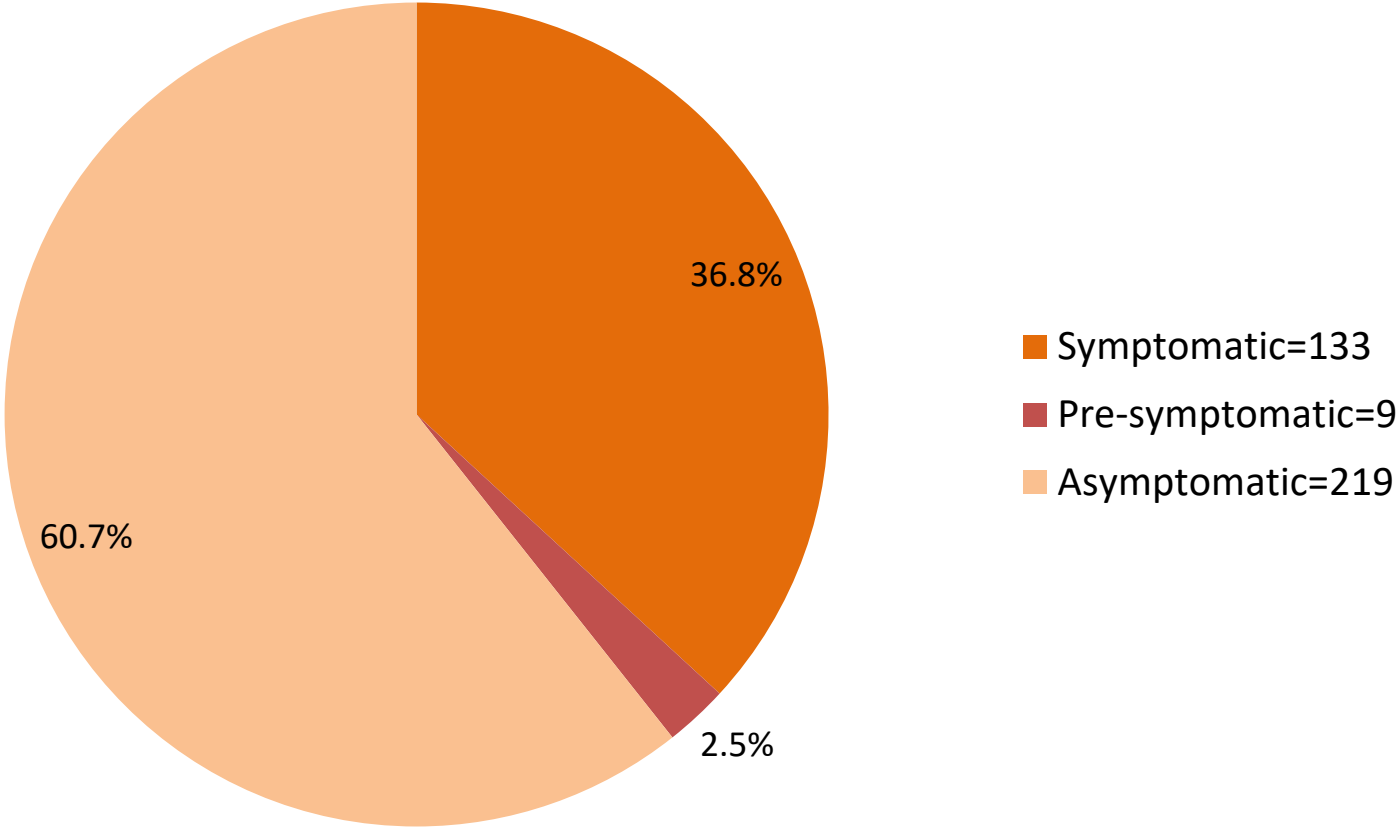


## Routes of travel of returnees among imported cases ( 23.3.2020 – 12-8-2020)

No.	Routes of travelling of returnees	No. of cases
1.	By relief flights	115
2.	Through ground crossing points	66
3.	By commercial flights	19
Total		200



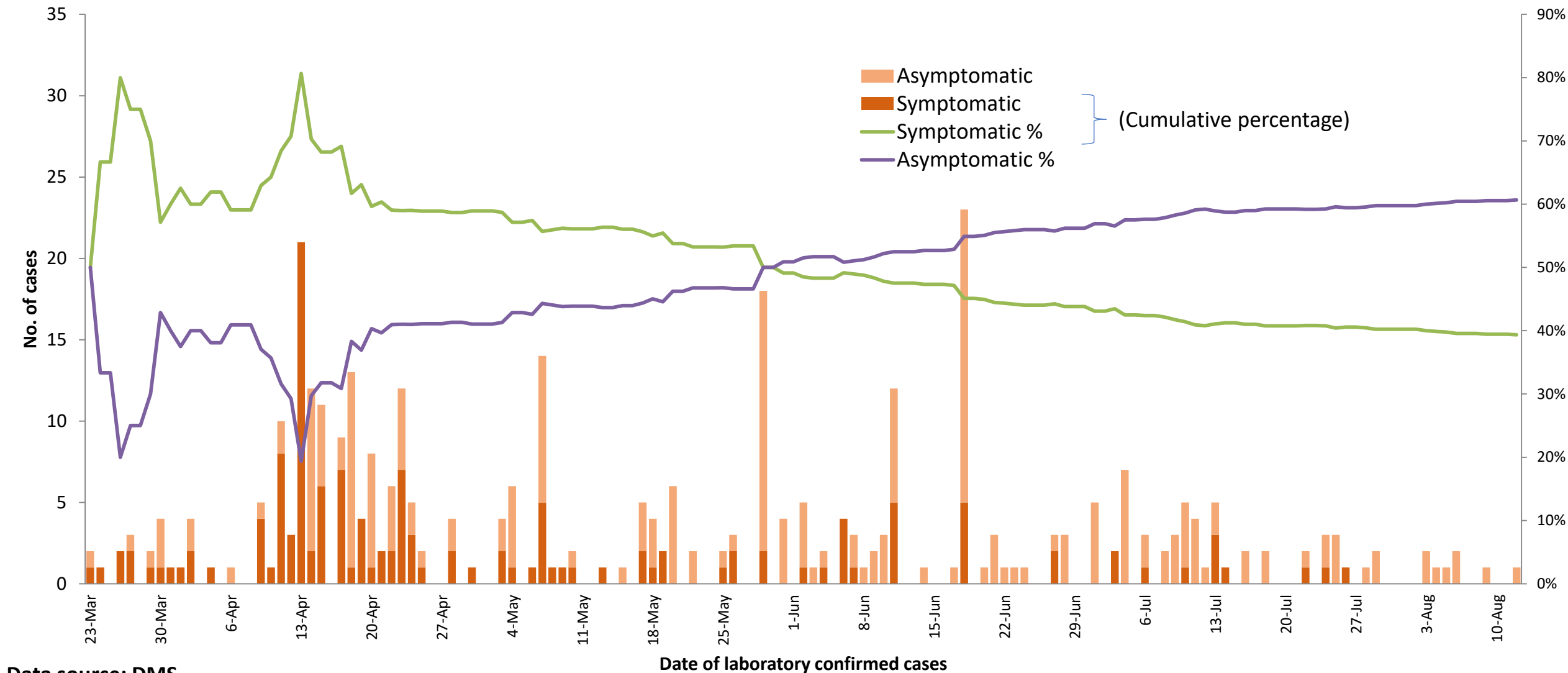
# Presentation of confirmed cases ( 23.3.2020 – 12-8-2020), n= 361



Data source: DMS



# Symptomatic and asymptomatic new confirmed cases ( 23.3.2020 – 12-8-2020), n=361



Data source: DMS

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# Symptom analysis of confirmed cases

( 23.3.2020 – 12-8-2020), n= 142

No.	Symptoms	No. of cases	Percentage ( out of symptomatic 142 cases)
1.	Cough	73	52%
2.	Fever	70	50%
3.	Sore-throat	31	22%
4.	Shortness of breath/dyspnoea/tightness of chest	26	18%
5.	Loss of taste and smell	21	15%
6.	Myalgia	19	13%
7.	Fatigue	15	11%
8.	Diarrhoea	12	8%
9.	Running nose/sneezing	10	7%
10.	Abodminal pain and vomiting	6	4%
11.	Nasal blockage	6	4%
12.	Skin manifastations	1	1%
13.	Conjunctivitis	1	1%

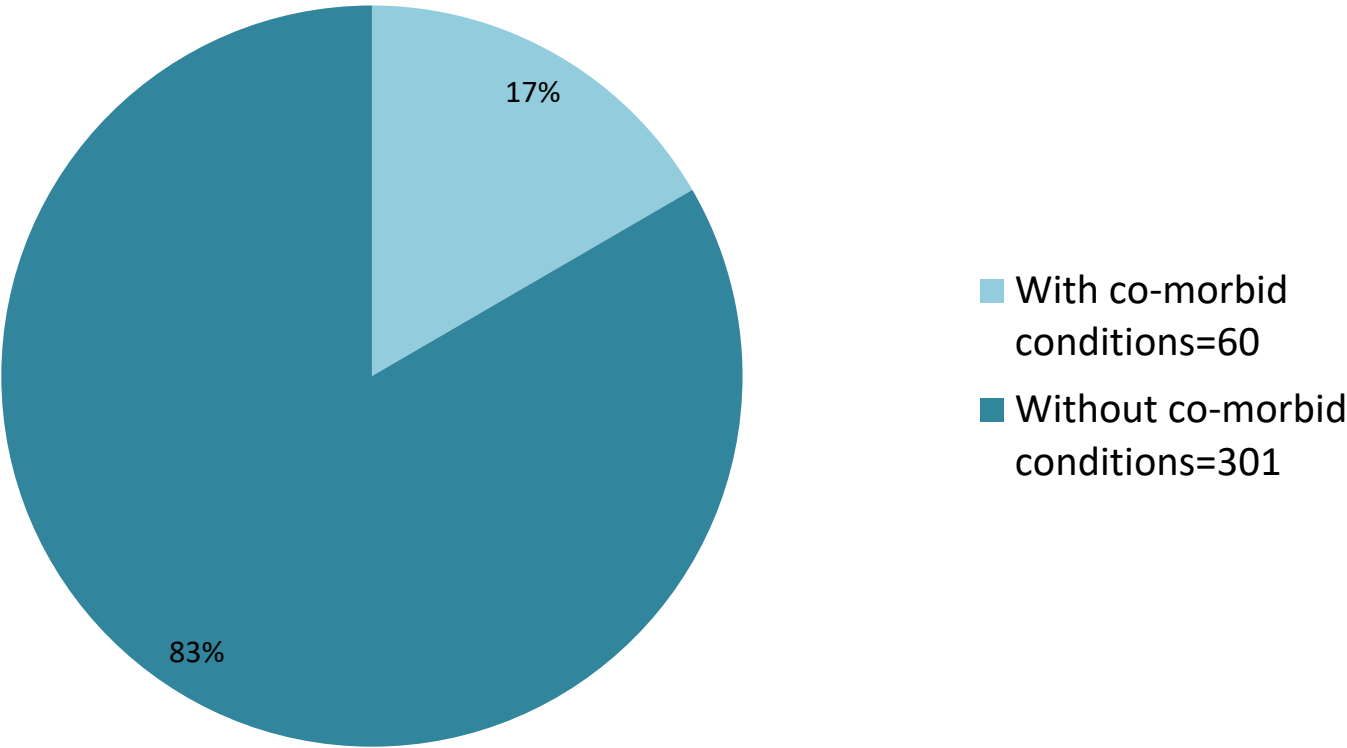
Data source: DMS  
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Symptoms are categorized according to WHO and USCDC  
One patient can include more than one category of symptom



# Co-morbid conditions of COVID -19 confirmed cases ( 23.3.2020 – 12-8-2020), n= 361



Data source: DMS



# COVID -19 confirmed cases with co-morbid conditions( 23.3.2020 – 12-8-2020), n= 60

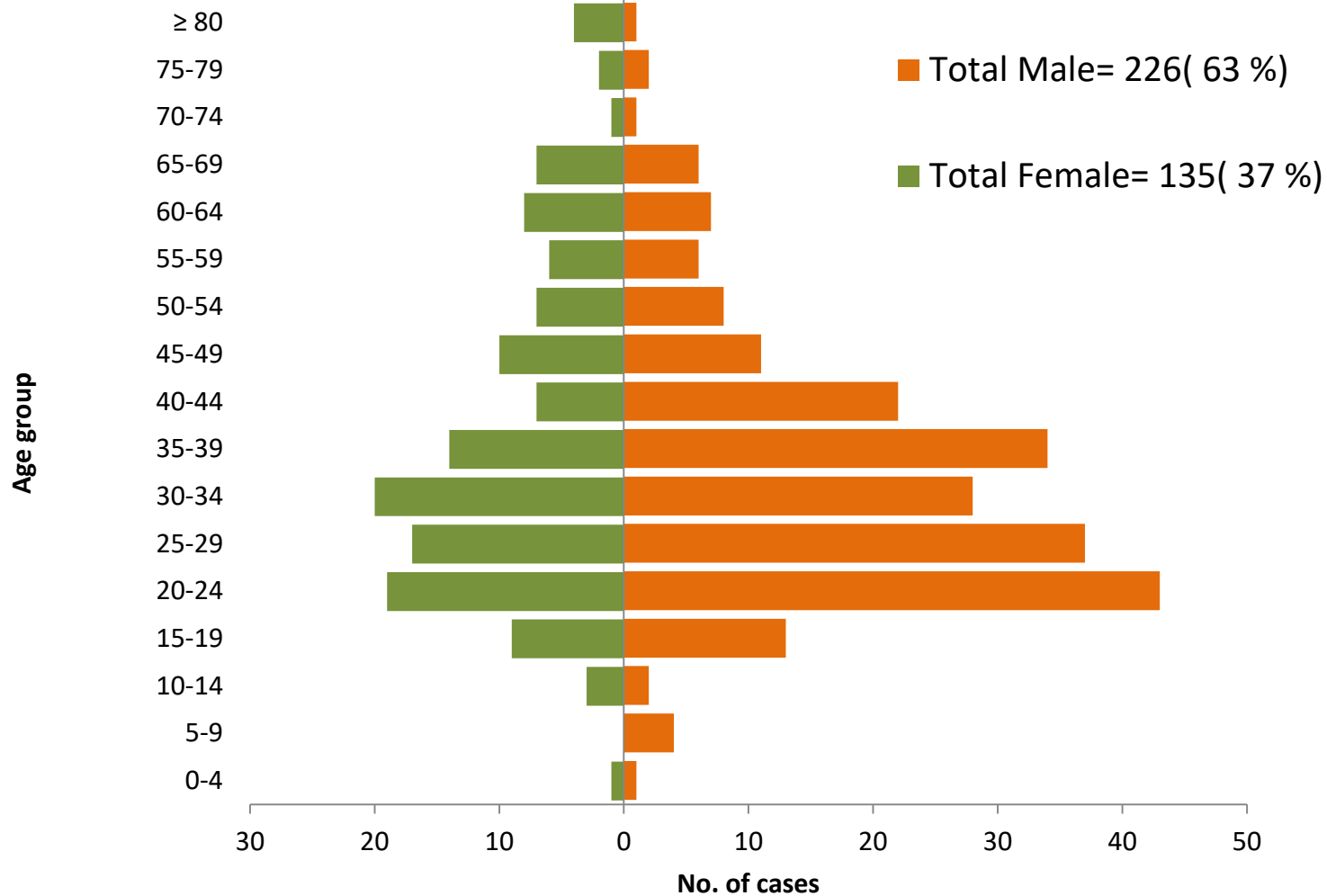
No.	Co-morbid conditions	No. of cases
1.	Diabetes Mellitus+ Hypertension	13
2.	Hypertension	11
3.	Diabetes Mellitus	11
4.	Pregnancy	4
5.	Koch' lung	3
6.	Retro viral infection	2
7.	Hypothyroid	2
8.	Asthma	2
9.	Hepatitis B infection	1
10.	COPD	1
11.	Bone cancer	1
12.	Lung cancer	1
13.	Ca nose	1
14.	HCC, Liver transplant	1
15.	Ca stomach + IHD	1
16.	Ischemic heart diseases+ End stage renal disease	1
17.	G6PD deficiency	1
18.	Hyperthyroid	1
19.	Gynecological disease(Ovarian cyst)	1
20.	Renal transplant due to ESRD	1
	<b>Total</b>	<b>60</b>

Data source: DMS

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# COVID-19 confirmed cases by age group ( 23.3.2020 – 12-8-2020) n= 361



Data source: DMS

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## COVID-19 confirmed cases by age group ( 23.3.2020 – 12-8-2020) n= 361

No.	Age group	No. of cases	Percentage
1.	< 15 year	11	3%
2.	15-59 year	311	86%
3.	≥ 60 year	39	11%
Total		361	

- Highest incidence in working age group( 15-59 year)

Data source: DMS

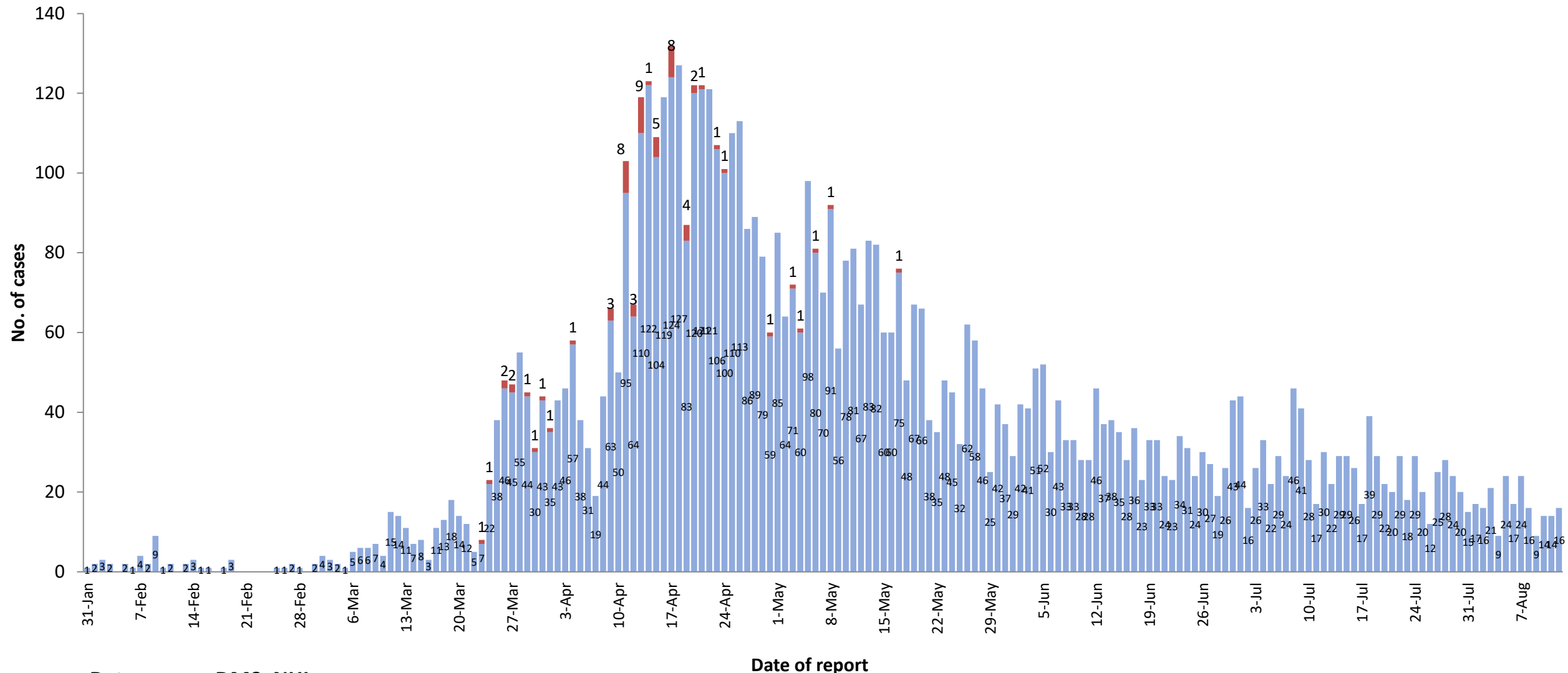


# Person under Investigation (PUI) by State/Region hospitals ( 31.1.2020 – 12-8-2020) n=7000

No.	State/Region	PUI	Confirmed cases among PUI	Positivity rate among PUI
1.	Yangon	3494	53	1.52%
2.	Mandalay	1454	2	0.14%
3.	Kayin	323	-	-
4.	Mon	287	-	-
5.	Shan(N)	249	1	0.40%
6.	Magway	222	-	-
7.	Bago	181	3	1.66%
8.	Shan ( E)	128	1	0.78%
9	Shan(S)	105	-	-
10.	Ayeyarwaddy	102	-	-
11.	Sagaing	90	-	-
12.	Kayah	81	-	-
13.	Thanintharyi	77	-	-
14.	Rakhine	69	-	-
15.	Naypyitaw	65	2	3.08%
16.	Kachin	43	1	2.33%
17.	Chin	30	1	3.33%
8/13/2020	Total	7000	63	0.90%



# COVID-19 laboratory confirmed cases among PUI by date of report (31.1.2020- 12.8.2020), $n(\text{PUI})=7000$ , $n(\text{confirmed})=63$



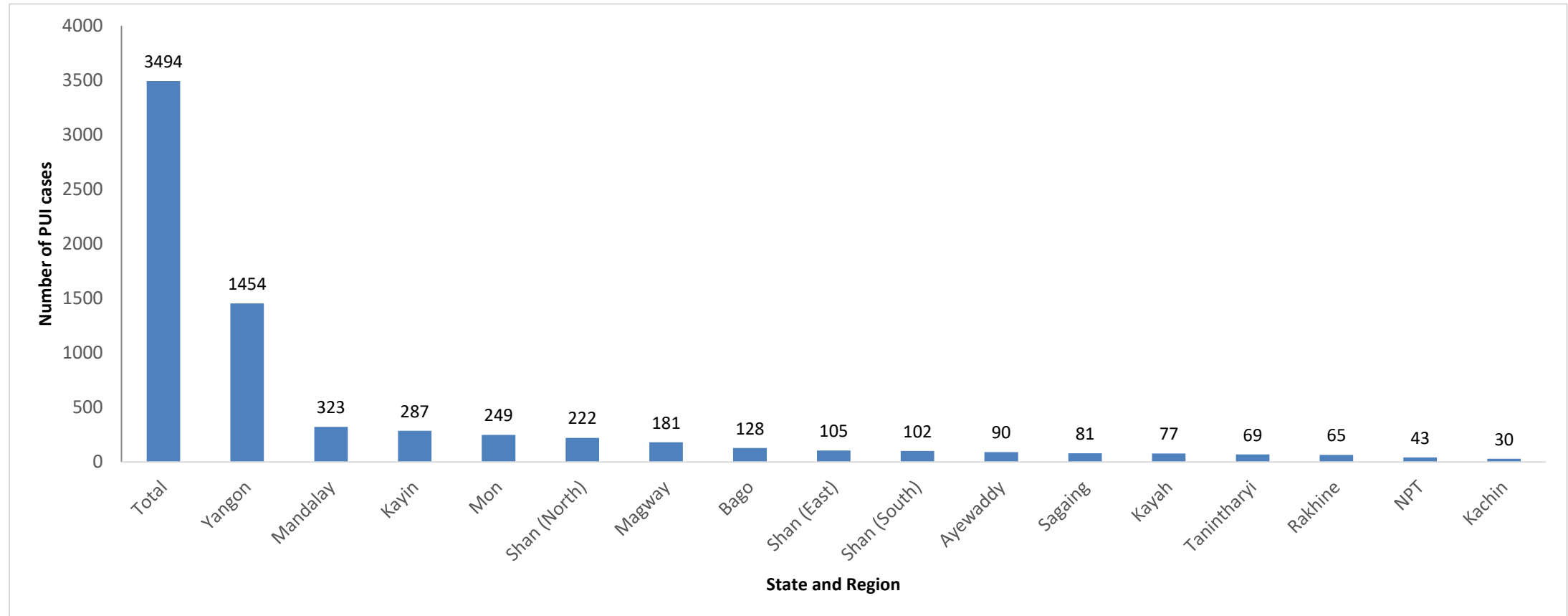
Data source: DMS, NHL

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■ PUI ■ Confirmed

# Distribution of PUIs by State and Region (as of 12-8-2020) (n=7,000)



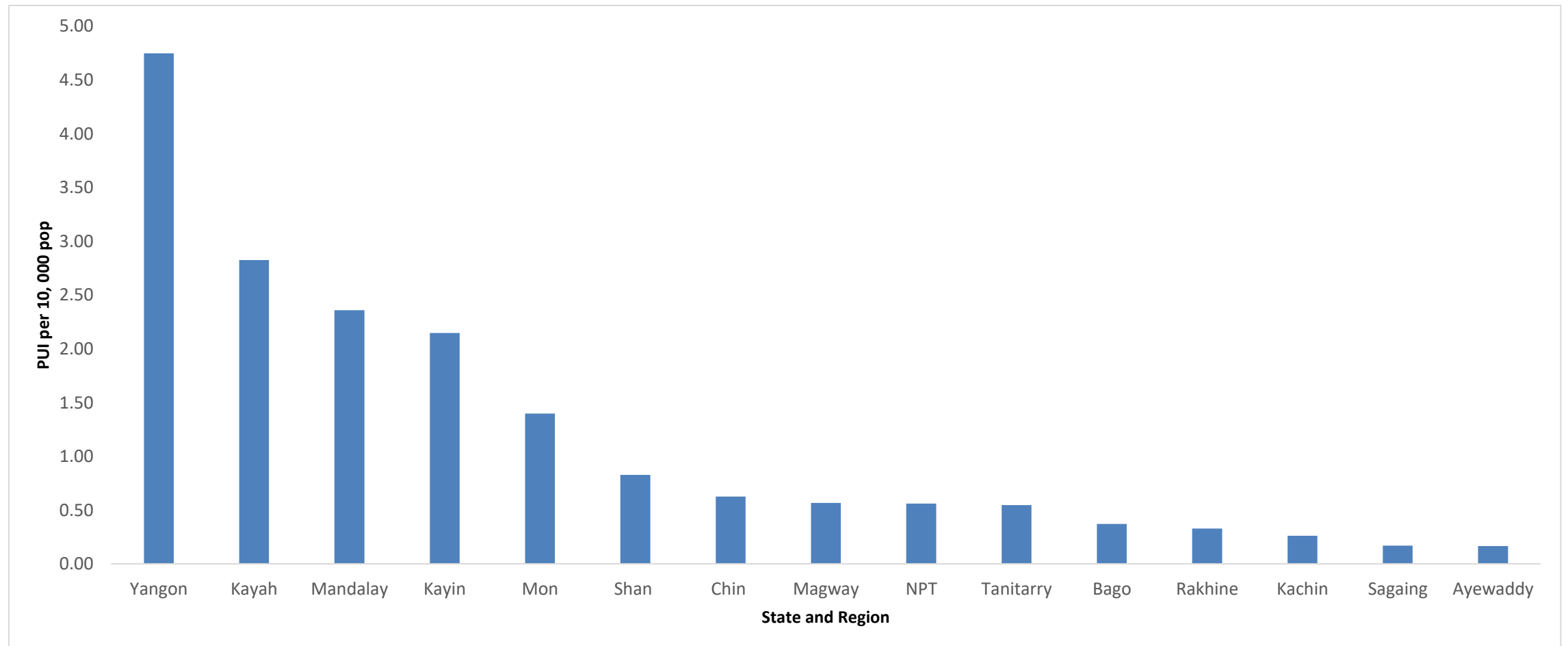
Data source: CEU, DMS, S/R PH & DMS

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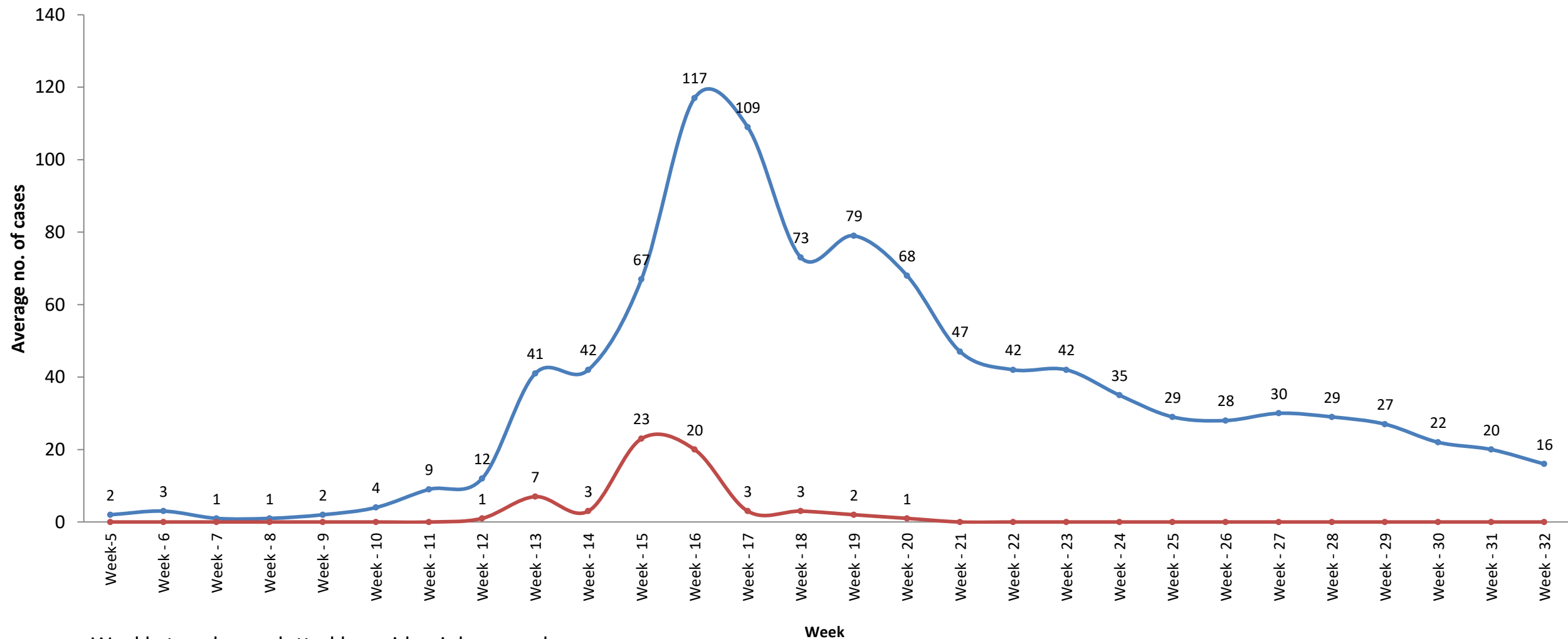


# PUI per population by States and regions (as of 12-8-2020) (n= 7, 000)





# Daily average number of Person under investigation during a week (PUI) , (31.1.2020-10.8.2020)



- Weekly trend was plotted by epidemiology week
- Week -5 starts from 31<sup>st</sup> January 2020
- Week -32 ends on 10<sup>th</sup> Aug 2020
- No more confirmed cases among PUI had been found since 18<sup>th</sup> May (Week 20)

— Average no. of PUI cases

**Data source: DMS, NHL**



# Duration of 2 times negative(Recovered) of confirmed cases( as of 12.8.2020), n=321

No.	Recovered time from date of laboratory confirmed	Duration
1.	Mean recovered time(Average)	26 Days
2.	Median recovered time	21 Days
3.	Minimum recovered time	8 Days
4.	Maximum recovered time	71 Days

	Case No.	State/Region	Symptoms	Co-morbid condition	Types of transmission	Frequency of samples for two time negative
Case of minimum recovered time	C- 348	Rakhine, Maungdaw	(-)	(-)	Imported case from Bangladesh	4 <sup>th</sup> sample
Case of maximum recovered time	C-203	Yangon,North Dagon	(+)	(-)	Imported case from India	13 <sup>th</sup> sample



## Big clusters of COVID-19 in Myanmar ( 23.3.2020 – 12-8-2020)

No.	Clusters	No. of cases	Percentage of total confirmed cases
1.	Religious cluster	72	20 %
2.	Family/household Cluster related to religious cluster in Insein	21	5.8%
3.	Workplace Cluster(Pan-Pacific Hotel)	14	3.8%
4.	Cluster in Tedim and Kalay	11	3%
Total		118	32.7 %

Big Cluster = more than 10 cases in a cluster

Data source: CEU, S/R PH and MS Departments

Thank you for your kind attention