



SITREP 09

NATIONAL MEASLES OUTBREAK 2019

Issued: **1500 hrs, 9 SEPTEMBER 2019**

IN CONFIDENCE – NOT FOR FURTHER DISTRIBUTION

New information in red text

All information is current as of **1300hrs 9 September 2019**

National Situation

1. In the last two weeks (26 August to 9 September) there have been **340** cases of measles reported in New Zealand based on ESR reporting (as at 0830hrs 9 September).
2. From 1 January 2019 to **9 September** 2019 there have been **1131** confirmed cases of measles notified across New Zealand based on ESR reporting (*Appendix 1*). This is an increase of **30** cases nationally since Exception Report 03 provided on Saturday 7 September.
3. There is still a rapid increase in cases in the Auckland region. Cases continue to occur nationwide related to the Auckland outbreak, especially in Northland, Waikato, Bay of Plenty, Lakes, and Southern DHBs.
4. Public Health Units outside of Auckland are being encouraged to manage measles cases and their contacts as per protocol, with isolation, contact tracing and quarantine to stop the spread of disease. Cases outside of Auckland are all currently linked to travel to or from the Metropolitan Auckland area, or importation from overseas. **A detailed breakdown of cases by age, DHB, and vaccination status is available on the ESR Public Health Surveillance website.**
<https://surv.esr.cri.nz/surveillance/WeeklyMeaslesRpt.php>

Auckland Situation

5. As at **0830hrs 9 September**, there have been **944** confirmed cases of measles in the Auckland region this year. **In the last two weeks, there have been 300 cases confirmed in the Auckland region; this is an increase of 25 cases since Exception Report 03 provided on Saturday 7 September. In total 650 cases have occurred in Counties Manukau District Health Board (CMDHB) (*Appendix 1*).**
6. New cases are mainly occurring in South Auckland, Counties Manukau. In South Auckland, the cases have been mainly in the 0–4 and 20–29 year age groups and predominately in the Pacific population.
7. Cases in the Auckland outbreak are being hospitalised at a slightly higher rate than in previous outbreaks in New Zealand. There are no clear reasons to account for this increase in hospitalisation.
8. The majority of cases have been in unvaccinated people, or in those who do not know their vaccination status.

9. There have been no deaths associated with this outbreak.

Auckland Region Response – Key Actions

Auckland Regional Public Health Service

10. The Auckland region has put in place a number of strategies to increase the population immunity against measles:
 - lowering the age of the first MMR vaccine in the Auckland region from age 15 months to 12 months
 - active recall of children who have not been vaccinated
 - opportunistic vaccination of older children and young adults when attending primary care
 - using outreach services
 - drop-in vaccination clinics at large medical centres and after hours clinics in Counties Manukau
 - public messaging on the outbreak about who is at risk and how to get vaccinated.
11. Auckland Regional Public Health Service (ARPHS) is working with local organisations, **including schools**, regarding major events and working with Mangere Refugee Resettlement Centre to protect its vulnerable population. **It is also scoping additional public information to be provided at Auckland International Airport in line with national messaging.**
12. **ARPHS are working on communications with the education sector regarding the revised processes for liaison and provision of advice to schools with confirmed cases.**
13. Particular effort is being made to vaccinate children, Pacific people, and those aged between 15 and 29 in the Auckland region to minimise the impact of this outbreak. Those outside of this region should follow the National Immunisation Schedule. The exception is infants 12 months or older travelling to Auckland, who can bring their first MMR vaccination, usually given at 15 months, forward to 12 months.
14. **ARPHS is developing a team to support logistics for the upcoming weeks to help with the workload and accommodating incoming staff.**

Counties Manukau District Health Board

15. **On 9 September the three Auckland metropolitan DHBs established a Regional Incident Management Team to coordinate the response across the region. This team is located at Auckland City Hospital. A daily teleconference is scheduled between this group and the NHCC.**
16. **A paediatric isolation ward has been established over the weekend to accommodate 10 hospitalised cases at Middlemore Hospital.**
17. Outreach vaccination is occurring in the CMDHB area. This involves active recall of children under five who may have missed or are delayed in getting their MMR vaccines. In the Auckland region, this also includes people not engaged or enrolled with primary care. Additional clinics have been set up to opportunistically vaccinate the unimmunised population.

18. Drop-in clinics in Auckland are running Monday to Friday from 9am until 4pm at Clendon Shopping Centre in Manurewa, from Monday to Friday from 9am until 3pm at Middlemore Hospital, and daily from 9am until 4pm at the Manukau SuperClinic. Middlemore Hospital Emergency Department is also performing opportunistic vaccination. However, the general public is not encouraged to attend ED just for a vaccination. Data on these additional vaccination clinics has been provided by CMDHB (*Appendix 3*).
19. Scoping is underway to determine additional community clinics required in Counties Manukau.
20. CMDHB has now set up a webpage which will be regularly updated with the latest information on where and when people can get vaccinated.
<https://countiesmanukau.health.nz/for-patients-and-visitors/measles/>
21. As at COB 8 September, 3,868 additional vaccinations have been given through the outreach clinics in Counties Manukau. Of these, 15% have been given to those identifying as Māori, and 23.5% to those identifying as Pacific.

Waitematā DHB

22. A free community vaccination clinic was held in the Outpatient Clinic area at Waitakere Hospital on 7 September 2019 from 8:30am-2:30pm.

Other Regions' Response – Key Actions

Southern DHB

23. As at 9 September 2019, there have been **16** confirmed cases of measles in Queenstown, which is an increase of **four** confirmed cases since Exception Report 03 provided on Saturday 7 September.
24. Southern DHB has stood up its Emergency Operating Centre (EOC). It has developed an action plan to address the increase in cases related to measles exposure on a ski field.
25. The public and general practices have been notified through a media release, and additional information for schools and large group events is being produced.
26. Vaccination clinics were held over the weekend for NZSki staff. Of 867 staff, 698 have either had their immunisation status confirmed, or have been vaccinated. Final confirmation of the number of staff members still to be vaccinated will be done this week. Additional clinics are being organised, specifically at Lakes District Hospital for Wednesday to Friday this week.
27. Southern DHB are assessing the risk of spread into other areas, such as Wanaka, Arrowtown, and Dunedin.
28. Southern DHB continue to provide situation reports to the NHCC on a regular basis.

Ministry of Health

29. At this stage the Ministry is not recommending cancellation of major events. However, event organisers are encouraged to work closely with their local DHB and consider the risks associated with the current measles outbreak to their participants.
30. The Ministry convened an urgent meeting of its expert advisory group on 3 September 2019.
31. The expert advisory group is scheduled to convene again on 10 September 2019.
32. The group's advice and recommendations will in turn inform the Ministry's advice to Government.
33. The Ministry of Health is working to ensure the National Health Coordination Centre is well staffed for the next few weeks to support the ongoing regional response.

Vaccine Availability and Distribution

34. Vaccination is not typically the first response for an outbreak of measles as it takes 14 days to develop immunity in response to the vaccine. Ongoing routine immunisation programmes and high community immunity are therefore the best way to prevent disease outbreaks occurring. One dose of vaccine is effective in 95% of people. After two doses, more than 99% of people are protected. It takes two weeks for immunity to develop after having the measles vaccine.
35. Prior to 1969, when vaccination was introduced, measles was very common in New Zealand. Those over 50 years of age are considered immune and do not need the measles vaccine.
36. Normal monthly usage of MMR vaccine in New Zealand is approximately 12,000 doses. From 1 January to 3 September 2019, 230,000 doses of MMR vaccine were distributed nationwide.
37. On Sunday 8 September, a temporary pause was placed on ordering MMR vaccine by the Ministry of Health and PHARMAC. This was done in order to allow for a stocktake of the distribution of vaccines in each region. From this, it will be possible to ensure that stock is distributed to the areas with the highest need.
38. PHARMAC has arranged with the vaccine supplier to bring forward the next two expected orders of vaccine to assist with supporting the increased demand of vaccine. An order of 52,000 doses of MMR vaccine will arrive in New Zealand on 15 September, with orders expected to be able to be taken from 20 September.

Public Information Management / Media

39. The Ministry website is being continually updated with new information.
40. The majority of views on the Ministry of Health website has been users seeking out measles information (40 percent). From 2 September to 8 September, there have been 90,386 total hits on measles related webpages. This is twice the amount of views from the previous week.
41. Media interest continues for the Ministry of Health, PHARMAC and DHBs.

42. There have been two interviews this morning (Newshub and Morning Report) focusing on unimmunised children attending the Bay of Plenty AIMS Games this week (11,500 young athletes from NZ and Pacific in Tauranga) and the level of vaccine supplies.
43. A statement on vaccine supply based on an email sent to GPs on Sunday is being used for media interest today (provided in response to a query from RNZ). There remains significant media cover of issues related to vaccine supply, Auckland's response and impacted communities (in South Auckland but also skiers in Queenstown).
44. Dr William Rainger from Auckland Regional Public Health Service continues to give regular media stand ups. This week (starting 9 September) stand ups will be at 1400hrs on Monday, Thursday, and Saturday.
45. All agencies, including the Ministry, will continue to focus on joined up messaging, shared communications and exploring ways to proactively push vaccination messages and health awareness. The Ministry's position is that the case numbers from the Executive Summary, released daily, are to be used for media requests and releases for national consistency.

Phone lines

46. The National Telehealth Service (Healthline) are still experiencing high call volumes. Over the weekend Healthline received 2,596 calls, which is approximately 700 additional calls compared to a normal weekend. Over Saturday and Sunday, Healthline received 339 calls from people experiencing measles symptoms respectively. All these cases were provided with clinical triage.
47. The IMAC phone lines continue to experience high call volumes. The table below details the calls received at the end of last week.

Date	Calls received
Wednesday 4 September	409
Thursday 5 September	259
Friday 6 September	194

48. PlunketLine has reported increased call volumes since 30 August 2019. The table below shows the increase of calls compared to the regular expected call volume to PlunketLine since Friday 30 August. The themes for questions are predominantly about infectious disease management, and concern for infants under 12 months. The majority of the calls are from the Auckland region, Waikato, and the Bay of Plenty.

Day	Increase compared to regular expected call volume
Friday 30 August	Increase of 51%
Saturday 31 August	Increase of 26%
Sunday 1 September	Increase of 35%
Monday 2 September	Increase of 30%
Tuesday 3 September	Increase of 37%
Wednesday 4 September	Increase of 49%
Thursday 5 September	Increase of 49%
Friday 6 September	Increase of 41%
Saturday 7 September	Increase of 37%
Sunday 8 September	Increase of 5%

Next situation report

The next report will be an Executive Summary via email at **1100** hrs on Tuesday 10 September 2019.

The next situation report will be via email at **1500** hrs on Wednesday 11 September 2019.

Prepared by: Tara Swadi, Intelligence

Approved by: Kath Blair, Response Manager

Appendix 1. Cases per DHB in New Zealand

DHB	Cumulative Cases - 1 January 2019 to 9 September 2019	Cases in the last 14 days (26 August to 9 September)	Status
Northland	36	12	Auckland link, ongoing local spread
Waitemata	153	25	Outbreak ongoing
Auckland	141	64	Outbreak ongoing
Counties Manukau	650	211	Outbreak ongoing
Waikato	24	7	Auckland link, ongoing local spread
Lakes	9	4	Isolated cases and Auckland link, ongoing local spread
Bay of Plenty	29	2	Auckland link, ongoing local spread
Tairāwhiti	0	0	-
Taranaki	6	2	New Auckland link, ongoing local spread
Hawke's Bay	3	0	Auckland link, ongoing local spread
Whanganui	0	0	-
MidCentral	2	1	Auckland link, single case
Hutt Valley	7	0	No recent cases
Capital and Coast	12	0	Auckland link, single case
Wairarapa	1	0	No recent cases
Nelson Marlborough	0	0	-
West Coast	0	0	-
Canterbury	41	0	No recent cases
South Canterbury	1	0	No recent cases
Southern	16	12	Auckland link, ongoing local spread
Total	1131	340	

Appendix 2

Figure 1. Cases of measles in the Auckland region to 9 September 2019

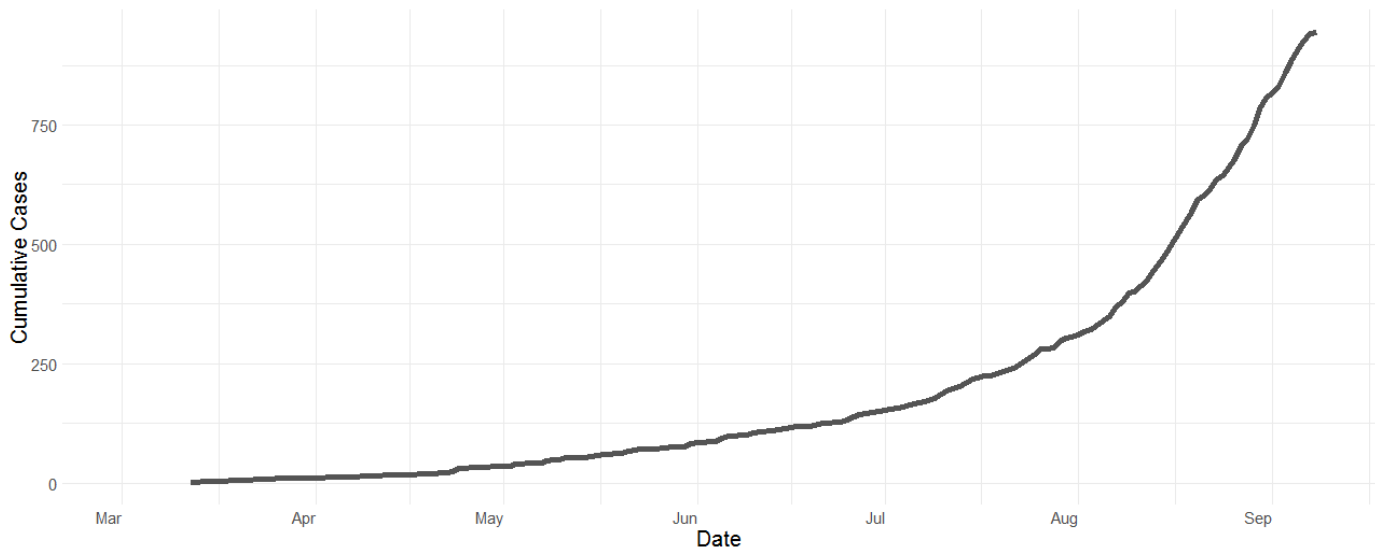


Figure 2. Exponential modelling of cases in Auckland per week up to 22 September 2019

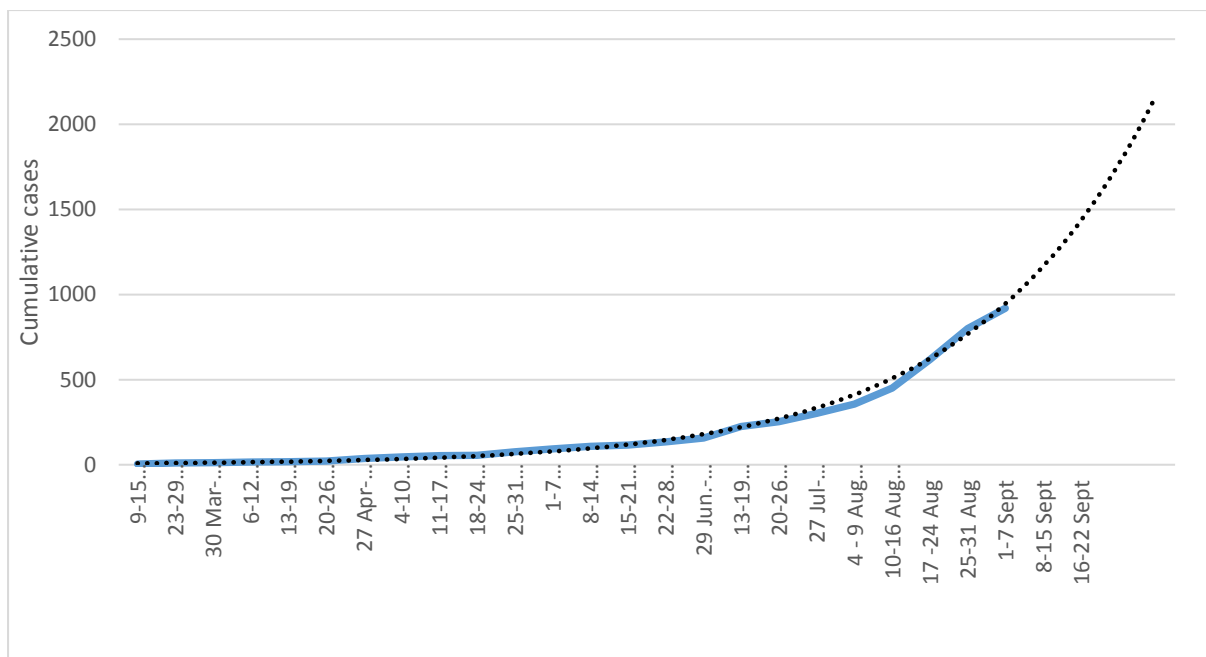


Figure 3. Cases of measles per DHB in Auckland since March 2019

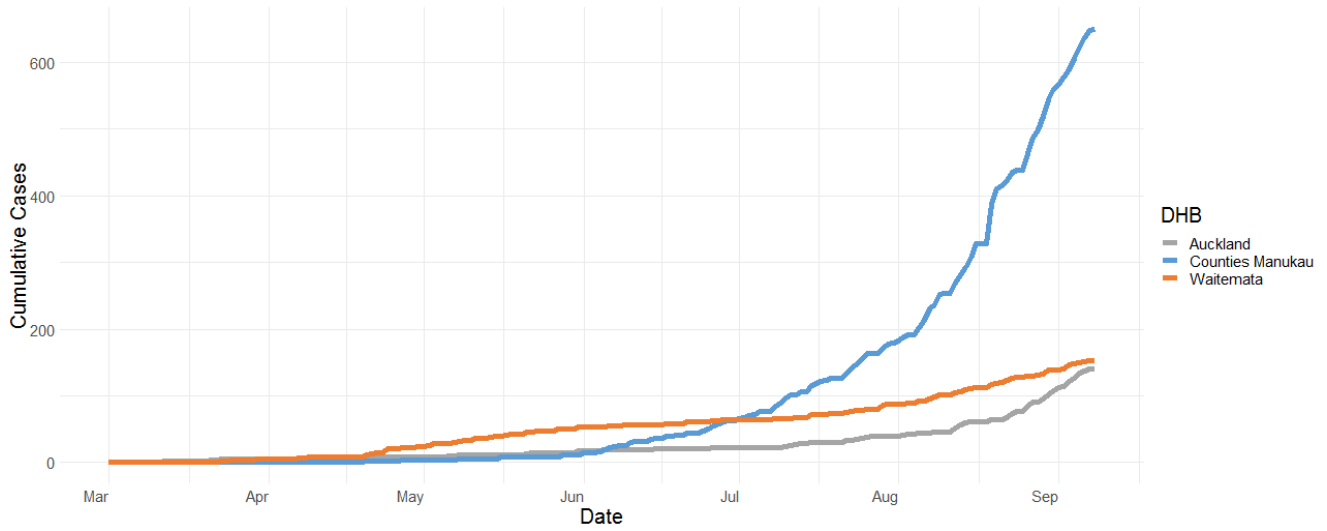


Figure 4. Number of cases of measles confirmed per day. *Please note that cases over the weekend are normally cumulatively notified to the Ministry on a Monday.*

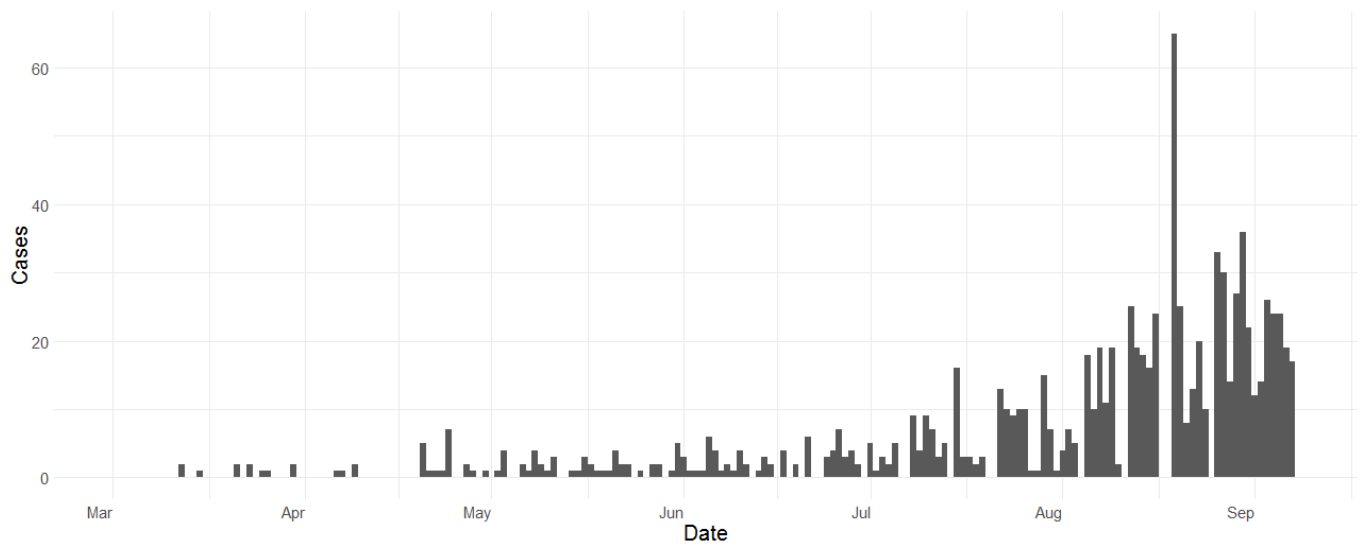
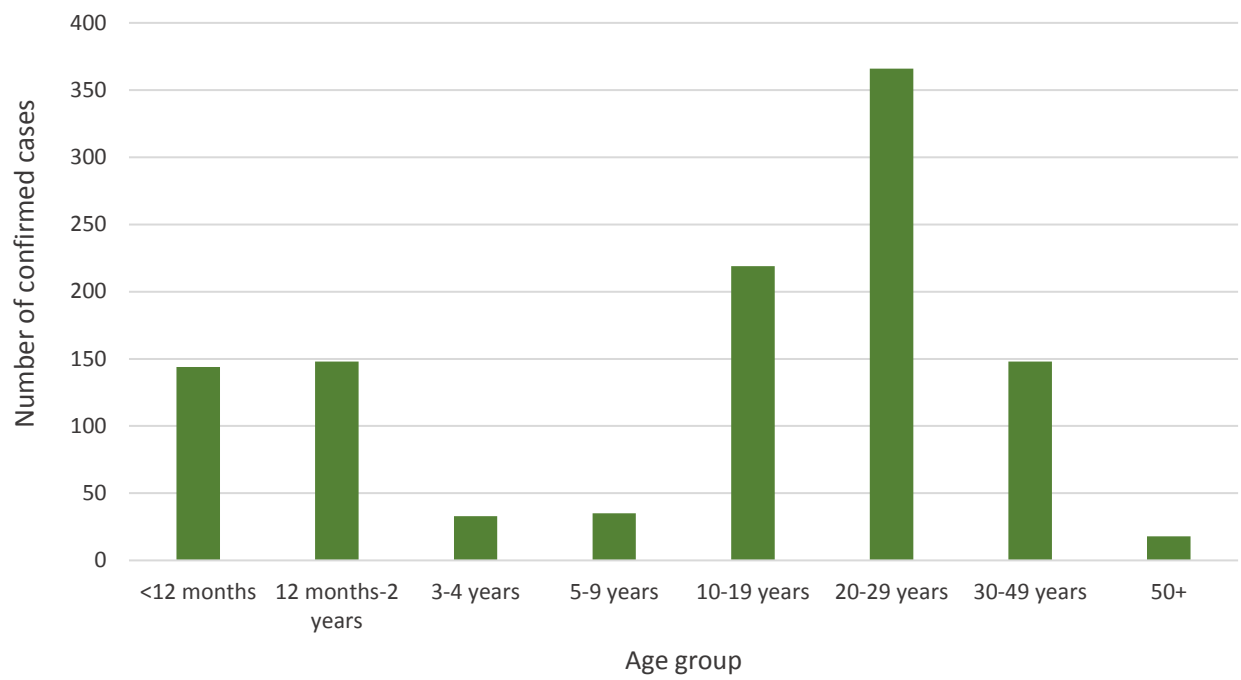


Figure 5. Cases of measles in New Zealand to 6 September by age group



Appendix 3. CMDHB vaccination clinic daily data

1. Vaccination Clinic Daily Data - Middlemore Hospital Opportunistic Vaccination Clinic ED

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
23/09/19					1		2	2		1	3		9	N
24/9/19					1		1	3			2	8	15	N
25/8/19								6	1	1	1	2	11	N
26/8/19						1	3		2	2		1	9	N
27/8/19					1			1	3			3	8	N
28/8/19						1		7	2		3	1	14	N
29/8/19							3			2	3		8	N
30/8/19				1			2	2	4		6	2	17	N
31/8/19			1				2	1	7	2	1	9	23	N
1/9/19			1					3	4	3	1	6	18	N
2/9/19	1	1						4	6		2	8	22	N
3/9/19		1				2	3	1	4	1	4	13	29	N
4/9/19								2			3	4	9	N
5/9/19								6	5	1	3	4	19	N
6/9/19		1					3	8	1		3	7	23	N
7/9/19							2			4	5	9	20	N
8/9/19								1	6		4	2	13	N
TOTAL:													267	

2. Vaccination Clinic Daily Data - Middlemore Hospital Corridor Clinic Start 3/9/19

IN CONFIDENCE

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
3/9/19	1						1	2		4	7	18	33	N
4/9/19							2	2	4	2	5	8	23	N
5/9/19								4	5		6	12	27	N
6/9/19	1				1		5	4	6	2	8	21	48	N
7/9/19													0	
8/9/19													0	
TOTAL:													131	

3. Vaccination Clinic Daily Data - Middlemore Hospital Wards

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
3/9/19							1					1	2	N
5/9/19		1											1	N
TOTAL:													3	

4. Outreach Clinics Daily Data – Outreach, Plunket/Clendon

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
23/8/19	2	1	0										3	
24/8/19	3	7	4										14	
26/8/19	3	2	0				1	2		1			9	
27/8/19	2	2	0					6			1		11	
28/8/19	5	4	0				4	4			2	1	20	
29/8/19	3		2				7	7	3	13	16	17	68	
30/8/19		1	1	4	1			6		3	5	6	27	
31/8/19										2		2	4	
1/9/19														
2/9/19	4	1	2	1	9	4	3	12	4	5	7	11	63	
3/9/19	8	2	2	1	6	1	4	8		8	14	20	74	
4/9/19	2	6	1		11	1	4	15	4	8	11	20	83	N
5/9/19	5	1	3	4	6	4	4	6	8	16	7	22	86	
6/9/19	4	3		6	4		2	13	8	13	12	17	82	N
7/9/19													0	
8/9/19													0	
TOTAL:													544	

5. Outreach Clinics Daily Data - Manukau Super Clinic

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
30/8/19		1	3			1	2	2	4	6	7	25	51	
31/8/19	3	7	5	1	4	5	4	8	6	7	19	39	108	
1/9/19		1	6			1	6	6	13	1	5	58	97	
2/9/19	2	4	11		2	1	8	7	10	8	8	32	93	N
3/9/19	9	10	8		3	5	15	11	38	13	19	93	224	N
4/9/19	8	1	16	14		3	17	21	44	13	24	115	276	N
5/9/19	8	4	15	5	4	3	22	29	75	26	35	139	365	N
6/9/19	5	2	14	4	3	7	5	26	79	21	31	181	378	N
7/9/19	2	3	25	4	10	31	23	20	99	20	23	227	487	N
8/9/19	3	5	15	4	6	10	10	19	91	16	33	205	417	N
TOTAL:													2496	

6. Outreach Clinics Daily Data – Free Church of Tonga – One off drop in clinic

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
31/8/19	1	3	2		5			16	7	2	19	13	68	N
TOTAL:													68	

7. Outreach Clinics Daily Data – Manurewa High School – One off clinic

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
3/9/19				4	3	6	8	22	30	2	5	11	91	N
TOTAL:													91	

8. Community Clinics Data – CM Health Clinic Hub, Otara – Weekend drop in clinic 7/8 September

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
7/9/19	5	4	6	1	3	4	6	13	31	13	25	66	177	N
8/9/19	3	1	1					3	22	4	7	56	97	N
TOTAL:													274	

9. Community Clinics Data – Mangere Community Health Centre, Mangere - Weekend drop in clinic 7/8 September

Date (Date/time of clinic operations)	Number of vaccines administered 0-4yrs			Number of vaccines administered 5-14 years			Number of vaccines administered 15-29 years			Number of vaccines administered 29+ years			Total	Adverse Event Reported (Y/N and detail)
	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other	Maori	Pacific	Other		
7/9/19	1	10	6	4	10	1	4	19	13	12	32	48	160	N
8/9/19	1	1			2	4	3	13	21	5	19	47	116	N
TOTAL:													276	