

133 Molesworth Street
PO Box 5013
Wellington 6140
New Zealand
+64 4 496 2000

11 April 2019

Cade Pellett

By email: fyi-request-9833-1681d8be@requests.fyi.org.nz
Ref: H201901384 and H201901428

Dear Cade

Response to your request for official information

Thank you for your requests for information under the Official Information Act 1982 (the Act) on 12 April 2019 and 15 April 2019 for:

"I'm doing some research on the contraction and the death rates from Typhoid Fever [Diphtheria, Whooping cough, and Scarlet Fever] in NZ from as far back as our records show [and] ...the Mortality and Morbidity data for Varicella (Chickenpox) from 1970's to current for the whole of NZ."

Information held by the Ministry of Health (the Ministry) relating to your requests is attached to this response. Please note that 2015 is the most recent year for which this data is currently available. Finalising mortality and morbidity data takes several years as there are a variety of data quality processes involved before this information is published. Generally, provisional data becomes available around two years after the end of the year. As such, 2016 data is expected to be provisionally available in mid-2019. Additional contextual information is also noted in the data tables.

The Ministry data warehouse only includes mortality and hospitalisation data from 1988 onwards. Due to this, the data supplied has been sourced from the Ministry of Health Publication series. Hospitalisation data from 1875 to 1977 was not published.

I trust that this information fulfils your request. Under section 28(3) of the Act you have the right to ask the Ombudsman to review any decisions made under this request.

Yours sincerely



Shayne Hunter
**Deputy Director-General
Data and Digital**

Released under the Official Information Act 1982

Table 1. Morbidity data (Source: Hospital and Selected Morbidity data)

Publicly funded hospital discharges for selected conditions as a primary diagnosis

ICD10 Code	ICD-9 Code	Year	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
A01	002	Typhoid	12	19	12	10	9	27	N/A	N/A	N/A	2	11	14
A36	032	Diphtheria	6	0	0	0	0	7	N/A	N/A	N/A	0	0	0
A37	033	Whooping cough	63	42	144	107	58	221	N/A	N/A	N/A	254	130	41
A38, J02.0, J03.0	034	Streptococcal sore throat and scarlet fever	56	44	58	66	48	64	N/A	N/A	N/A	57	41	46
B01	052	Chickenpox	77	67	93	77	112	111	N/A	N/A	N/A	82	72	55

ICD10 Code	ICD-9 Code	Year	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
A01	002	Typhoid	9	8	5	7	6	30	4	18	13	1	9	17
A36	032	Diphtheria	0	0	0	0	0	0	0	0	0	0	0	1
A37	033	Whooping cough	39	570	137	17	63	339	79	11	59	127	328	130
A38, J02.0, J03.0	034	Streptococcal sore throat and scarlet fever	43	57	53	78	55	38	72	81	82	90	68	89
B01	052	Chickenpox	58	61	53	86	53	68	63	69	97	88	95	128

ICD10 Code	ICD-9 Code	Year	1993	1994	1995	1995/96	1996/97	1997/98	1998/99	1999/2000	2000/01	2001/02	2002/03	2003/04
A01	002	Typhoid	3	16	13	8	15	18	13	14	25	26	19	24
A36	032	Diphtheria	0	0	0	0	0	0	0	1	0	1	0	0
A37	033	Whooping cough	107	44	181	548	198	59	78	352	360	150	128	142
A38, J02.0, J03.0	034	Streptococcal sore throat and scarlet fever	143	175	142	141	171	209	215	216	251	266	264	305
B01	052	Chickenpox	239	201	169	156	154	164	262	222	193	299	265	325

ICD10 Code	ICD-9 Code	Year	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
A01	002	Typhoid	25	22	60	24	32	37	32	41	74	42	40	61
A36	032	Diphtheria	0	2	0	0	0	0	2	0	1	1	1	0
A37	033	Whooping cough	242	89	60	47	108	134	100	273	398	169	112	1
A38, J02.0, J03.0	034	Streptococcal sore throat and scarlet fever	301	267	280	333	304	317	366	429	393	389	415	573
B01	052	Chickenpox	279	274	342	316	345	332	424	378	338	381	360	374

Hospitalisation data from 1975-1977 was not published

Data changes from calendar years to financial years in 1995/1996

Financial year runs from 1st July to 30th June

Released under the Official Information Act 1982

Table 2. Mortality data (Source: Mortality and Demographic data)

Deaths registered in 1968 - 1999

Year	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
052 Chickenpox	3	1	6	4	5	3	2	0	0	2	2	0	1	0	1	1
033 Whooping cough	1	0	0	1	3	0	0	0	0	0	2	0	0	1	0	0
032 Diphtheria	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
034 Streptococcal sore throat and scarlet fever	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0
0020 Typhoid	0	0	0	0	2	0	0	0	1	0	0	1	0	0	0	0

Year	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
052 Chickenpox	1	0	0	0	0	1	1	0	4	2	0	0	1	0	0	1
033 Whooping cough	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
032 Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
034 Streptococcal sore throat and scarlet fever	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
0020 Typhoid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Deaths registered in 2000-

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
B01 Chickenpox	2	1	4	0	2	1	3	1	0	1	2	3	2	1	0	0
A37 Whooping cough	1	1	1	0	1	1	0	0	0	0	1	0	2	2	0	1
A36 Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A38 Scarlet fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A01 Typhoid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1968-1999 uses ICD9 code

2000-2015 uses ICD-10-AM code

Published mortality data is currently only available up to 2015

Year refers to the year the death is registered, this maybe different to the year the death occurred