



Communicable Diseases Intelligence

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Contents:

Editor *Dr Robert Hall*

- . *Overseas briefs:*
 1. *Dengue.*
 2. *Influenza.*
- . *Dengue haemorrhagic fever - increase number of cases in the Americas, 1980 - 1987.*
- . *AIDS update, Australia.*
- . *Notifiable diseases - Periods 6 & 7, 1989.*

VIRUSES, CHLAMYDIAS, COXIELLAS, RICKETTSIAS AND MYCOPLASMAS REPORTING SCHEME: A total of 1186 reports were processed during this period.

Three cases of Q fever (2 males, 1 females, 1 sex not stated) were reported during this period. Ages ranged from 21 to 48. No occupational exposure details were provided.

Thirty-four reports of rubella were received during this period, bringing the progressive total for to 510 for 1989 and 22 for 1990. This is approximately 2.5 times the number of reports received in 1988 (196) which was the lowest number of reports received since 1978 (174).

OVERSEAS BRIEFS:

1. DENGUE

- . *Fiji:* An outbreak of dengue type 1, commencing in September 1989, reached 793 cases in October.
- . *French Polynesia:* The dengue type 3 epidemic continued into December 1989. Sentinel sites recorded 160 cases per week in November and 110 cases per week in December. Over 70% of cases were under 20 years of age. In 6% of patients there have been signs of haemorrhage.

Other Editorial Staff: Ms Evon Bowler, Dr Lance Sanders, Mr Lundy Keo.

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- . *Marshall Islands:* An epidemic of dengue type 1 commenced in September 1989.
- . *Samoa and Tokelau:* Cases of dengue were recorded towards the end of 1989.
- . *Wallis and Futuna:* Dengue type 3 activity was reported in September (344 cases) and October (61 cases).
- . *Vanuatu:* Dengue cases are still occurring in Vanuatu, both in Vila and in small outbreaks throughout the country, the proportion of haemorrhagic and shock cases seemed to be increasing in December in Vila suggesting that reinfection may be occurring. It is feared that dengue may remain in Vanuata at an endemic level.

2. INFLUENZA

- . *North America:* Influenza is spreading in the USA with 44 states reporting signs of illness in first week of January 1990. Of these 41 had confirmed cases through virus isolation. All confirmed cases were influenza A and except for a few isolates of H1N1 subtype all were influenza A (H3N2). Influenza activity in Canada is decreasing and only one province (New Brunswick) reported widespread illness in second week of January.
- . *Europe:* USSR reported epidemic levels of influenza activity in half of the cities under surveillance during the second week of January 1990. Between one and two percent of the population in these cities were affected. A few other countries reported moderately increasing activity (Denmark, Federal Republic Germany, Finland, Italy) whereas Belgium, France and UK where influenza was epidemic in December all report decreasing activity.
- . *Asia:* Influenza outbreaks affecting mainly school children and younger children have been reported in several cities and provinces of China since November. Influenza A (H3N2) was isolated. Influenza A (H3N1) and Influenza B have been detected in Israel where sporadic cases and small localised outbreaks have been reported all over the country since mid-December.

DENGUE HAEMORRHAGIC FEVER (DHF) - INCREASE IN NUMBERS OF CASES IN THE AMERICAS, 1980-1987

(Based on a WER reproduction of Epidemiological Bulletin 1989; 10(1), published in WER 1989;65(3):13-15).

Prior to an outbreak in Cuba in 1981, suspected cases of DHF in the Americas had been reported on only 4 occasions, from Curacao, Puerto Rico, Jamaica and Honduras. During a 1968 outbreak due to dengue type 2 in Curacao, transient epistaxis, haematemesis and petechiae were observed together with thrombocytopenia as low as 10,000/ml in some patients. Some cases were first infections and others were reinfections after a previous epidemic, in 1964, during which dengue type 2 virus

was isolated and dengue type 3 might also have been present. During the 1975 dengue epidemic in Puerto Rico, 3 dengue confirmed patients had developed haemorrhagic manifestations. None of them went into shock and none died. Only 1 of the patients had a disease that resembled DHF as observed in South-East Asia. Two non-fatal cases suggestive of dengue shock syndrome were reported in Jamaica during an outbreak of dengue type 1 which occurred in 1977. In Honduras, in 1978, 5 fatalities were reported as suspected cases of DHF during a dengue type 1 outbreak but no clinical data were available nor were specimens submitted for laboratory examination.

Following the Cuban outbreak, however, every year (except 1983) confirmed or suspected cases of DHF have been reported in the Americas. Nine countries or territories reported cases of DHF among children and adults. All cases notified by Aruba, Brazil, Colombia and Nicaragua were among adults and were fatal. Most cases in Puerto Rico were children under 15 years of age and the only case in Saint Lucia was in a 6-year-old child.

In Suriname, cases occurred during an outbreak of dengue type 1; they were 3 males over the age of 45 who developed shock without haemorrhagic manifestations, although all had thrombocytopenia and haemoconcentration and all 3 had serological evidence of unspecified dengue infection; 1 died a month later from bleeding of oesophageal varices.

During an epidemic of dengue type 4 in Merida, Mexico, in 1984, over 5,390 cases were reported, including 9 cases of haemorrhagic disease, 4 of which had a fatal outcome. Eight of these (including the 4 fatalities) were laboratory-confirmed as dengue (3 by virus isolation and 5 by serology). Only 1 patient met WHO's criteria for DHF. Acute onset fever, haemorrhagic manifestations including at least a positive tourniquet test, thrombocytopenia of 100,000/ml or less had haemoconcentration [Hct increased by 20% or more].

Two cases in Aruba were sibling adults who manifested haemorrhagic disease and died. Diffuse acute liver necrosis was observed in both patients and dengue type 1 virus was isolated from one of them.

All 7 cases reported from Nicaragua occurred among adults and dengue type 1 virus was isolated from one of them.

In Colombia, a 19-year-old male presented fever, jaundice, skin and internal haemorrhages, and hepatosplenomegaly, and died; a secondary serological reaction to dengue antigen was detected by HI and monoclonal antibody capture ELISA but clinically the case did not fulfil WHO'S criteria for DHF.

The 4 Brazilian cases were persons about 15 years of age who developed haemorrhages, shock, and died; dengue type 1 virus was isolated or dengue antigen was detected from organs of these patients; one of the patients was a 17-year-old boy who had juvenile rheumatoid arthritis and microspherocytosis.

The Saint Lucia case was a 6-year-old girl, who developed severe haemorrhagic disease, thrombocytopenia and haemoconcentration; the diagnosis was made serologically, but the infecting serotype was not determined.

The cases from El Salvador were diagnosed on clinical grounds and only a few were serologically confirmed as dengue; a fatal case was said to fulfil WHO's criteria for DHF.

Of the 48 cases of DHF documented in Puerto Rico during 1985-1987, 46 occurred in 1986 and 1987. All these cases met WHO's criteria for DHF. Most were among patients under 15 years of age; 4 were fatal. The 2 cases in 1985 were proven by virus isolation, one being a strain of dengue type 1 and the other a strain of dengue type 2. Of the 21 cases notified in 1986, 6 were diagnosed by virus isolation (3 isolates each of dengue type 2 and dengue type 4) and the remaining cases by serology. The 1987 cases were associated with infections due to serotypes 1 and 2. It should be noted that there were many more cases of haemorrhagic disease observed in Puerto Rico that were clinically compatible with DHF, but no adequate clinical and/or laboratory data for diagnostic confirmation was obtained.

WER Editorial Comment.

The pathogenesis of DHF still persists as a challenge. Anti body dependent enhancement of dengue virus replication in cells of mononuclear phagocyte lineage has been considered as an important factor in the regulation of dengue disease in humans; and variation in virus antigenic epitopes may also serve to modulate infection. Variation in virulence of dengue virus strains has also been claimed to determine severity of dengue infection. An integral hypothesis for the development of DHF has been presented; it takes into consideration individual and epidemiological risk factors, and also viral factors. These hypotheses, however, do not explain why DHF appears in some areas while other areas apparently receptive to the disease have been spared. In any case, if the events which preceded the DHF outbreaks in Cuba are considered to be predictive of the threat of DHF, then several countries in South America are at high risk. These countries, namely Bolivia, Brazil, Ecuador and Paraguay which were free of dengue for several decades, or never had dengue before, experienced outbreaks of dengue type 1, a situation similar to that observed in Cuba. Therefore, should dengue type 2 be introduced into these countries in the next few years, this may possibly result in the development of an epidemic of DHF, as observed in Cuba.

Immunisation against dengue may become an important tool in the prevention of dengue infection in the future. Live-attenuated dengue types 1, 2 and 4 candidate vaccines are being evaluated in Thailand and efforts are being made to develop a genetically engineered dengue vaccine. Nevertheless, it may take several years until an efficacious dengue vaccine is available for general use. Meanwhile, vector control measures remain the principal tool for the prevention of dengue infection.

AIDS AND HIV SURVEILLANCE, AUSTRALIA - 1 NOVEMBER 1989

AIDS surveillance

To 26 January 1990, 1,707 cases of AIDS fulfilling the criteria of case definition were reported to the National Centre in HIV Epidemiology and Clinical Research (formerly the NHMR Unit in AIDS Epidemiology and Clinical Research). The distribution of

those patients by State or Territory of notification (Table 1), by age group (Table 2), by risk category (Tables 3A & 3B) and by clinical presentation (Table 4) are shown below.

Table 1: AIDS patients by State or Territory of notification

STATE/ TERRITORY	CASES			KNOWN DEATHS		
	Male	Female	Total	Male	Female	Total
NSW	1,037	32	1,069	586	22	608
VIC	347	9	356	175	2	177
QLD	111	5	116	66	4	70
WA	74	5	79	33	2	35
SA	56	2	58	26	1	27
NT	2	0	2	1	0	1
TAS	8	1	9	3	1	4
ACT	18	0	18	12	0	12
TOTAL	1,653	54	1,707	902	32	934

Table 2: AIDS patients by age group

AGE (YEARS)	CASES			KNOWN DEATHS		
	Male	Female	Total	Male	Female	Total
0 - 9	10	2	12	7	1	8
10 - 19	9	3	12	4	1	5
20 - 29	329	16	345	176	5	181
30 - 39	714	7	725	391	3	394
40 - 49	428	6	434	224	5	229
50 - 59	131	9	140	75	7	82
60 +	32	11	43	25	10	35
TOTAL	1,653	54	1,707	902	32	934

Table 3A: AIDS patients by risk/transmission category: adults and adolescents 14 yrs and older

TRANSMISSION/RISK CATEGORY	CASES	KNOWN DEATHS
Homosexual/Bisexual	1,502	815
IV drug user:	(69)	(30)
. Homosexual/Bisexual IV drug user	47	24
. Heterosexual IV drug user	22	6
Person with haemophilia	19	10
Other blood/blood products/tissue recipient	57	46
Heterosexual contact*	14	5
Undetermined/none of the above	31	18
TOTAL	1,692	924

* Includes only cases from pattern II countries where the epidemic is predominately heterosexual, and cases who had heterosexual contact with a recognised risk group of known to be HIV antibody positive.

Table 3B: AIDS patients by risk/transmission category: Paediatric cases (13 years or less)

TRANSMISSION CATEGORY	CASES	KNOWN DEATHS
Haemophiliac	2	1
Other blood/blood products/tissue recipient	10	8
Mother with/at risk or AIDS/HIV	3	1
TOTAL	15	10

Table 4: AIDS patients by clinical presentation*

INITIAL DISEASE REPORTED	CASES	KNOWN DEATHS
GROUP IV:		
B: Neurological disease	47	23
C: Secondary infectious diseases	1,226	671
D: Secondary cancers	334	178
E: Other conditions	18	6
BC: Neurological disease + infectious diseases	14	10
BD: Neurological disease + cancers	1	1
CD: Infectious diseases + cancers	55	93
TOTAL	1,695	928

* The data in this table includes both presumptive (clinical) and definitive diagnoses. However, cases which have not been designated as one of these two categories have not been included.

HIV surveillance

TABLE 5: Notifications of persons newly diagnosed as infected with HIV by State and Territory, 1989

STATE/ TERRITORY	Weeks 35-38	1989			1985-1989 Cumulative 31 Dec 1989
		Weeks 39-42	Weeks 43-46	Weeks 47-52	
NSW	N/A*	N/A*	N/A*	N/A*	N/A*
VIC	37	26	31	20	2,220
QLD	24	20	14	15	833
WA	5	5	9	11	496
SA	12	0	12	7	364
TAS	5	0	0	1	46
ACT	N/A*	N/A*	N/A*	N/A*	97
NT	1	52	1	0	50
TOTAL	84	52	67	54	4,106

*N/A = Not yet available

Table 6: Notifications of persons newly diagnosed as infected with HIV by presumed transmission category (data from NSW, ACT and NT not yet available)

PRESUMED TRANSMISSION CATEGORY	1989				1985-1989 Cumulative Total Number (%)
	Weeks 35-38	Weeks 39-42	Weeks 43-46	Weeks 47-52	
Homo/bisexual males	63	34	46	39	3,145 (79.5)
Heterosexual IVDU	3	3	5	3	187 (4.7)
(- males)	(2)	(2)	(4)	(1)	(142)
(- females)	(1)	(1)	(1)	(2)	(45)
Homo/bisexual males IVDU	2	1	3	3	106 (2.7)
Haemophilia	1	1	0	0	182 (4.6)
Heterosexual contact	5	3	3	2	107 (2.7)
(- males)	(4)	(1)	(3)	(0)	(62)
(- females)	(1)	(2)	(0)	(2)	(45)
Blood transfusion(#)	0	2	3	1	57 (1.4)
Other/not specified	9	7	6	6	175 (4.2)
TOTAL	83	51	66	54	3,959 (100.0)

In addition 110 cases were detected in NSW up to week 42 (Information from Red Cross Blood Transfusion Service).

TABLE 7: Donations tested for antibody for HIV at Red Cross Blood Transfusion Services by State and Territory**

STATE/ TERRITORY	DONATIONS TESTED 1989		CUMULATIVE TOTAL FOR 1989 to week 42	CUMULATIVE HIV +VE DONORS, 1985-89
	Weeks 35 - 38	Weeks 39 - 42		
NSW	24,245	20,297	229,595	22
VIC	17,870	19,103	208,906	5
QLD	31,620	13,869	136,510	6
WA	-*	-*	47,910	1
SA	6,023	3,626	71,479	-
TAS	1,920	2,076	21,224	-
ACT	1,640	1,697	16,567	-
NT	310	734	7,150	-
TOTAL	83,628	61,402	739,341	34

* No new report from WA.

** Data for weeks 47 - 52 not yet available.

Data not yet available from:

Perth Red Cross: weeks 33-42

Northern Territory Red Cross: weeks 41 and 42

South Australian Red Cross: weeks 41 and 42

Table 8: Specimens tested for antibody to HIV at the 33 Australian Public Health Laboratories, by State/Territory, 1989**

STATE/ TERRITORY	Weeks 35 - 38	Weeks 39 - 42	Cumulative to week 42
NSW	17,719	7,893	96,466
VIC	9,299	6,227	59,297
QLD	7,024	6,077	59,823
WA	1,256	-*	19,194
SA	1,709	1,681	28,262
TAS	587	659	5,822
ACT	428	145	4,009
NT	763	348	6,578
TOTAL	38,785	23,030	279,451

** Data for weeks 47 - 52 not yet available.

Data not yet available from:

- Royal Prince Alfred Hospital, Sydney: up to week 42
- Royal North Shore Hospital, Sydney: weeks 17 to 42
- St Vincent's Hospital, Sydney: weeks 17 to 42
- Prince Charles Hospital, Brisbane: weeks 33 - 42
- Perth State Health Laboratories: weeks 37 - 42
- Royal Perth Hospital: up to week 42
- IMVS, Adelaide: weeks 33 to 42

NOTIFIABLE DISEASES REPORTED IN AUSTRALIA

Period 6: 21 May - 17 June 1989.

DISEASE	NSW	VIC	QLD	SA	WA	TAS	NT	ACT	CUMULATIVE	
									TOTAL	TOTAL
Amoebiasis (a)	2	1	1	1	6	0	0	0	11	43
Ankylostomiasis (a)	0	0	(b)	1	6	0	(b)	0	7	45
Anthrax (a)	0	0	0	0	0	0	0	0	0	0
Arbovirus infection (a)	11	10	113	10	18	25	1	0	188	2307
Brucellosis (a)	0	0	1	0	0	0	0	0	1	9
Campylobacter infection (a)	134	(b)	(b)	122	35	(b)	41	0	332	1905
Chancroid (a)	0	0	0	(b)	0	(b)	0	(b)	0	0
Cholera	0	0	0	0	0	0	0	0	0	0
Congenital rubella	0	(b)	(b)	0	0	(b)	0	(b)	0	0
Diphtheria (a)	0	0	0	0	0	0	0	0	0	0
Donovanosis (a)	0	(b)	3	(b)	2	(b)	0	(b)	5	54
Giardiasis (a)	74	(b)	(b)	71	31	(b)	(b)	2	178	1075
Genital herpes	65	(b)	158	(b)	(b)	(b)	0	5	228	1287
Gonococcal ophthalmia neonatorum	0	0	0	0	(b)	(b)	0	(b)	0	1
Gonorrhoea (a)	30	0	90	16	159	1	50	1	347	1780
Hepatitis A	2	0	11	4	8	0	6	0	31	233
Hepatitis B (a)	38	19	151	2	52	5	3	1	271	1174
Hepatitis - unspecified	3	(b)	1	0	(b)	(b)	0	0	4	15
Hydatid disease (a)	0	0	0	1	0	0	0	0	1	8
Lassa fever	0	0	0	0	0	0	0	0	0	0
Legionnaires disease (a)	5	0	2	3	1	(b)	0	(b)	11	66
Leprosy	0	0	3	0	0	0	0	0	3	18
Leptospirosis (a)	2	0	(b)	0	0	1	0	0	3	43
Lymphogranuloma venereum (a)	0	(b)	0	(b)	(b)	(b)	0	(b)	0	0
Malaria (a)	5	5	46	3	10	0	1	5	75	371
Marburg disease	0	0	0	0	0	0	0	0	0	0
Measles	4	(b)	1	1	2	(b)	(b)	3	11	62
Meningococcal infections (a)	6	1	0	0	1	(b)	0	0	8	50
Non-specific urethritis	85	(b)	(b)	(b)	(b)	(b)	2	(b)	87	820
Ornithosis (a)	0	0	0	3	0	0	0	0	3	14
Pertussis (whooping cough)	2	4	(b)	3	8	(b)	0	0	17	143
Plague	0	0	0	0	0	0	0	0	0	0
Poliomyelitis (a)	0	0	0	0	0	0	0	0	0	0
Q Fever (a)	3	0	19	1	0	0	0	0	23	188
Rabies	0	(b)	0	0	0	(b)	0	(b)	0	0
Salmonella infections (a)	62	16	105	31	43	16	27	2	302	2538
Shigella infections (a)	10	1	3	6	25	1	37	0	83	345
Smallpox	(b)	(b)	0	0	0	0	0	0	0	0
Syphilis (a)	30	0	96	3	14	(b)	31	1	175	947
Tetanus	0	0	(b)	0	0	0	0	0	0	1
Trachoma	0	(b)	(b)	52	0	(b)	(b)	0	53	378
Tuberculosis (all forms) (a)	48	38	8	8	14	0	3	8	127	571
Typhoid fever (a)	0	3	0	0	0	0	0	0	3	27
Typhus (all forms) (a)	0	0	0	0	0	0	0	0	0	1
Vibrio parahaemolyticus infections (a)	1	(b)	(b)	0	0	(b)	0	(b)	1	8
Yellow fever	0	0	0	0	0	0	0	0	0	0
Yersinia infections (a)	9	(b)	(b)	4	1	(b)	0	(b)	14	109

(a) Confirmed by appropriate diagnostic tests.
 (b) Not notifiable.

Note: Data collected under the National Diseases Returns may bear little or no correlation to that collected under the CDI laboratory scheme. Whilst the latter is a sampling program, the Notifiable Diseases data is dependent upon reporting by medical practitioners etc.

NOTIFIABLE DISEASES REPORTED IN AUSTRALIA

Period 7: 18 June 1989 - 15 July 1989.

DISEASE	NSW	VIC	QLD	SA	WA	TAS	NT	ACT	CUMULATIVE	
									TOTAL	TOTAL
Amoebiasis (a)	0	0	0	2	2	0	0	0	4	47
Ankylostomiasis (a)	0	0	(b)	1	3	4	(b)	0	8	53
Anthrax (a)	0	0	0	0	0	0	0	0	0	0
Arbovirus infection (a)	5	1	76	2	21	11	3	0	119	2426
Brucellosis (a)	0	0	1	0	0	0	0	0	1	10
Campylobacter infection (a)	122	(b)	(b)	131	31	(b)	22	4	310	2215
Chancroid (a)	0	0	0	(b)	1	(b)	0	(b)	1	1
Cholera	0	0	0	0	0	0	0	0	0	0
Congenital rubella	0	(b)	(b)	0	0	(b)	0	(b)	0	0
Diphtheria (a)	0	0	0	0	0	0	0	0	0	0
Donovanosis (a)	0	(b)	12	(b)	0	(b)	1	(b)	13	67
Giardiasis (a)	33	(b)	(b)	95	21	(b)	(b)	2	151	1226
Genital herpes	74	(b)	140	(b)	(b)	(b)	0	6	220	1507
Gonococcal ophthalmia neonatorum	0	0	0	0	(b)	(b)	0	(b)	0	1
Gonorrhoea (a)	55	0	122	7	56	1	46	1	288	2068
Hepatitis A	26	1	6	2	0	0	11	0	46	279
Hepatitis B (a)	26	12	142	3	61	2	2	2	250	1424
Hepatitis - unspecified	0	3*	1	0	(b)	(b)	0	0	4	19
Hydatid disease (a)	0	0	0	0	0	0	0	0	0	8
Lassa fever	0	0	0	0	0	0	0	0	0	0
Legionnaires disease (a)	4	0	2	0	1	(b)	0	(b)	7	73
Leprosy	0	1	2	0	0	0	2	0	5	23
Leptospirosis (a)	12	1	(b)	0	0	1	0	0	14	57
Lymphogranuloma venereum (a)	0	(b)	0	(b)	(b)	(b)	0	(b)	0	0
Malaria (a)	4	5	51	4	9	1	0	0	74	445
Marburg disease	0	0	0	0	0	0	0	0	0	0
Measles	0	(b)	4	0	1	(b)	(b)	0	5	67
Meningococcal infections (a)	4	3	0	2	7	(b)	0	0	16	66
Non-specific urethritis	112	(b)	(b)	(b)	(b)	(b)	1	(b)	113	933
Ornithosis (a)	0	0	0	5	0	0	0	0	5	19
Pertussis (whooping cough)	3	5	(b)	4	6	(b)	0	0	18	161
Plague	0	0	0	0	0	0	0	0	0	0
Poliomyelitis (a)	0	0	0	0	0	0	0	0	0	0
Q Fever (a)	2	2	14	3	0	0	0	0	21	209
Rabies	0	(b)	0	0	0	(b)	0	(b)	0	0
Salmonella infections (a)	92	15	80	27	42	13	22	8	299	2837
Shigella infections (a)	9	3	32	9	29	0	21	0	103	448
Smallpox	(b)	(b)	0	0	0	0	0	0	0	0
Syphilis (a)	19	0	114	1	14	(b)	26	2	176	1123
Tetanus	0	0	(b)	0	0	0	0	0	0	1
Trachoma	0	(b)	(b)	1	0	(b)	(b)	0	1	379
Tuberculosis (all forms) (a)	31	25	11	22	14	3	10	7	123	694
Typhoid fever (a)	0	2	0	0	0	0	0	0	2	29
Typhus (all forms) (a)	0	0	0	0	0	0	0	0	0	1
Vibrio parahaemolyticus infections (a)	0	(b)	(b)	0	0	(b)	0	(b)	0	8
Yellow fever	0	0	0	0	0	0	0	0	0	0
Yersinia infections (a)	7	(b)	(b)	4	0	(b)	0	(b)	11	120

(a) Confirmed by appropriate diagnostic tests.

(b) Not notifiable.

* Not normally notifiable.

Note: Data collected under the National Diseases Returns may bear little or no correlation to that collected under the CDI laboratory scheme. Whilst the latter is a sampling program, the Notifiable Diseases data is dependent upon reporting by medical practitioners etc.

AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

VIRAL IDENTIFICATIONS FROM CONTRIBUTING LABORATORIES
BASED ON DATE OF REPORTING

PERIOD 18/1/90 TO 31/1/90

- 1. CODE 019 - FAIRFIELD(VIC)
- 2. CODE 065 - STATE LAB(WA)
- 3. CODE 066 - PMH(WA)
- 4. CODE 110 - IMVS(SA)
- 5. CODE 111 - RCH(VIC)
- 6. CODE 113 - PHH POW(NSW)
- 7. CODE 114 - RAHC(NSW)
- 8. CODE 115 - STATE LAB(QLD)
- 9. CODE 116 - WVH(ACT)
- 10. CODE LDS - DIAGNOSTIC SERV LAUNCESTON(TAS)
- 13. CODE TPL - TOOWOOMBA PATHOLOGY LAB

	019	065	066	110	111	112	113	114	115	116	LDS	RHH	TPL	TOTAL
0100 ADENOVIRUS NOT TYPED	0	6	2	1	0	0	4	3	12	0	0	0	0	28
0101 ADENOVIRUS TYPE 1	0	1	0	4	5	6	0	0	0	0	0	1	0	17
0102 ADENOVIRUS TYPE 2	0	1	0	0	8	6	0	1	0	0	0	1	0	17
0103 ADENOVIRUS TYPE 3	0	3	0	11	1	2	0	0	0	0	0	0	0	17
0104 ADENOVIRUS TYPE 4	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0105 ADENOVIRUS TYPE 5	0	0	0	0	4	1	0	0	0	0	0	0	0	5
0108 ADENOVIRUS TYPE 8	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0120 ADENOVIRUS TYPE 20	0	0	0	0	0	1	0	0	0	0	0	0	0	1
0130 ADENOVIRUS TYPE 30	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0199 ADENOVIRUS TYPING PENDING	0	0	0	0	4	0	0	0	0	0	0	1	0	5
0201 INFLUENZA A VIRUS	0	1	0	0	0	0	3	0	0	2	0	0	0	6
0301 PARAINFLUENZA VIRUS TYPE 1	0	0	0	4	0	2	0	1	0	0	0	0	0	7
0303 PARAINFLUENZA VIRUS TYPE 3	0	1	0	0	7	2	1	4	4	0	0	0	0	19
0399 PARAINFLUENZA VIRUS TYPING PEN	0	0	0	0	1	0	0	0	2	0	0	0	0	3
0400 RESPIRATORY SYNCYTIAL VIRUS (R	0	0	1	1	2	0	0	0	0	0	0	1	0	5
0500 RHINOVIRUS (ALL TYPES)	0	8	0	3	13	5	1	0	0	0	0	0	0	30
0600 MYCOPLASMA PNEUMONIAE	0	3	0	4	7	3	1	0	0	0	4	2	0	24
0700 ORNITHOSIS-PSITTACOSIS	0	0	0	0	0	0	0	0	0	1	0	0	0	1
0809 COXSACKIEVIRUS A9	0	0	0	0	1	0	0	0	0	0	0	0	0	1
0816 COXSACKIEVIRUS A16	0	0	0	0	0	2	0	1	0	0	0	0	0	3
0902 COXSACKIEVIRUS B2	0	0	0	0	1	0	0	1	0	0	0	0	0	2
0903 COXSACKIEVIRUS B3	0	0	0	0	3	0	0	0	0	0	0	0	0	3
0904 COXSACKIEVIRUS B4	0	1	0	0	1	0	0	0	0	0	0	0	0	2
0905 COXSACKIEVIRUS B5	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1001 ECHOVIRUS TYPE 1	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1003 ECHOVIRUS TYPE 3	0	1	0	0	0	1	0	0	0	0	0	0	0	2
1006 ECHOVIRUS TYPE 6	0	0	0	1	0	1	0	0	0	0	0	0	0	2
1007 ECHOVIRUS TYPE 7	0	0	0	0	0	0	0	1	0	0	0	0	0	1
1011 ECHOVIRUS TYPE 11	0	0	0	0	0	3	0	0	0	0	0	1	0	4
1028 ECHOVIRUS TYPE 28 = RHINO VIRU	0	0	0	0	0	0	0	1	0	0	0	0	0	1
1029 ECHOVIRUS TYPE 29	0	0	0	1	0	0	0	0	0	0	0	0	0	1
1100 POLIOVIRUS NOT TYPED	0	0	0	0	2	0	1	0	0	0	0	0	0	3
1101 POLIOVIRUS TYPE 1	0	0	0	0	0	0	0	1	0	0	0	0	0	1
1102 POLIOVIRUS TYPE 2	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1103 POLIOVIRUS TYPE 3	0	0	0	1	0	1	0	0	0	0	0	0	0	2
1200 MUMPS VIRUS	0	0	0	1	0	1	0	0	0	0	0	0	0	2
1300 HERPES VIRUS GROUP - NOT TYPED	0	4	0	0	0	0	0	1	0	4	10	0	0	9
1301 HERPES SIMPLEX VIRUS - NOT TYP	0	0	4	0	0	63	0	0	88	0	12	0	0	167
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	0	10	0	13	1	1	2	2	0	0	0	0	0	29
1303 VARICELLA-ZOSTER VIRUS	2	2	0	4	1	3	3	0	0	1	0	0	0	16
1306 HERPES SIMPLEX TYPE 1	0	37	1	20	0	6	3	2	0	0	2	1	0	72
1307 HERPES SIMPLEX TYPE 2	0	64	0	20	0	32	15	0	0	0	6	0	0	137
1399 HERPES VIRUS TYPING PENDING	0	2	0	0	4	0	0	0	0	0	0	0	0	6
1401 COXIELLA BURNETII	0	0	0	0	0	4	0	0	0	0	0	0	0	4
1502 PICORNI A VIRUS - NOT TYPED = E	0	9	1	0	0	0	5	0	29	0	0	0	0	44
1521 MEASLES VIRUS	0	0	0	1	4	2	0	0	0	1	0	0	0	8
1522 RUBELLA VIRUS	2	5	0	18	0	0	5	1	0	2	1	0	0	34
1532 HEPATITIS B ANTIGEN	0	33	0	12	0	28	6	2	16	4	0	1	0	102
1535 HEPATITIS A ANTIBODY	0	2	0	3	0	1	0	0	0	0	0	0	0	6
1541 CHLAMYDIA A - C. TRACHOMATIS	0	113	0	60	0	0	1	0	21	4	22	12	6	239
1555 PAPOVAVIRUS GROUP (PAPILLOMA -	0	0	0	0	0	0	2	0	0	0	0	0	0	2
1556 CMV - CYTOMEGALOVIRUS	0	0	2	3	4	3	3	2	7	0	0	0	0	24
1564 ROTAVIRUS	0	0	1	9	0	15	3	2	0	0	5	8	0	43
1565 CALICI VIRUS	0	0	0	0	0	2	0	0	0	0	0	0	0	2
1599 ENTEROVIRUS TYPING PENDING	0	0	0	0	1	0	6	2	0	0	0	0	0	9
9992 ROSS RIVER VIRUS	0	4	0	2	0	0	0	0	0	0	1	0	0	7
9993 ASTROVIRUS	0	0	0	0	0	2	0	0	0	0	0	0	0	2
9994 SMALL VIRUS (LIKE) PARTICLE	0	0	0	0	0	0	0	3	0	0	0	0	0	3
TOTAL	5	311	12	199	76	201	65	31	179	19	53	29	6	1186

AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

VIRAL IDENTIFICATIONS FROM CONTRIBUTING LABORATORIES BY STATE OF CONTRIBUTING LABORATORY

PERIOD 18/1/90 TO 31/1/90

NSW: ICPMR; PHH POW; RACH; ST GEORGE HOSP, KOGARAH; ROYAL NEWCASTLE HOSP.
 VIC: FAIRFIELD; RCH.
 QLD: STATE LAB, BRIS; TOOWOOMBA PATH LAB; ROYAL BRIS HOSP.
 WA: STATE LAB, PERTH; PMH.
 SA: IMVS.
 TAS: ROYAL HOBART HOSP; DIAGNOSTIC SERVICES, LAUNCESTON; LAUNCESTON GEN HOSP;
 DIAGNOSTIC SERVICES, HOBART; HOBART PATH; MERSEY GEN HOSP, LATROBE.
 ACT: WVH.

	NSW	VIC	QLD	WA	SA	TAS	ACT	TOTAL
0100 ADENOVIRUS NOT TYPED	7	0	12	8	1	0	0	28
0101 ADENOVIRUS TYPE 1	6	5	0	1	4	1	0	17
0102 ADENOVIRUS TYPE 2	7	8	0	1	0	1	0	17
0103 ADENOVIRUS TYPE 3	2	1	0	3	11	0	0	17
0104 ADENOVIRUS TYPE 4	0	0	0	0	1	0	0	1
0105 ADENOVIRUS TYPE 5	1	4	0	0	0	0	0	5
0108 ADENOVIRUS TYPE 8	0	0	0	0	1	0	0	1
0120 ADENOVIRUS TYPE 20	1	0	0	0	0	0	0	1
0130 ADENOVIRUS TYPE 30	0	1	0	0	0	0	0	1
0199 ADENOVIRUS TYPING PENDING	0	4	0	0	0	1	0	5
0201 INFLUENZA A VIRUS	3	0	0	1	0	0	2	6
0301 PARAINFLUENZA VIRUS TYPE 1	3	0	0	0	4	0	0	7
0303 PARAINFLUENZA VIRUS TYPE 3	7	7	4	1	0	0	0	19
0399 PARAINFLUENZA VIRUS TYPING PEN	0	1	2	0	0	0	0	3
0400 RESPIRATORY SYNCYTIAL VIRUS (R	0	2	0	1	1	1	0	5
0500 RHINOVIRUS (ALL TYPES)	6	13	0	8	3	0	0	30
0600 MYCOPLASMA PNEUMONIAE	4	7	0	3	4	6	0	24
0700 ORNITHOSIS-PSITTACOSIS	0	0	0	0	0	0	1	1
0809 COXSACKIEVIRUS A9	0	1	0	0	0	0	0	1
0816 COXSACKIEVIRUS A16	3	0	0	0	0	0	0	3
0902 COXSACKIEVIRUS B2	1	1	0	0	0	0	0	2
0903 COXSACKIEVIRUS B3	0	3	0	0	0	0	0	3
0904 COXSACKIEVIRUS B4	0	1	0	1	0	0	0	2
0905 COXSACKIEVIRUS B5	0	1	0	0	0	0	0	1
1001 ECHOVIRUS TYPE 1	1	0	0	0	0	0	0	1
1003 ECHOVIRUS TYPE 3	1	0	0	1	0	0	0	2
1006 ECHOVIRUS TYPE 6	1	0	0	0	1	0	0	2
1007 ECHOVIRUS TYPE 7	1	0	0	0	0	0	0	1
1011 ECHOVIRUS TYPE 11	3	0	0	0	0	1	0	4
1028 ECHOVIRUS TYPE 28 = RHIND VIRU	1	0	0	0	0	0	0	1
1029 ECHOVIRUS TYPE 29	0	0	0	0	1	0	0	1
1100 POLIOVIRUS NOT TYPED	1	2	0	0	0	0	0	3
1101 POLIOVIRUS TYPE 1	1	0	0	0	0	0	0	1
1102 POLIOVIRUS TYPE 2	1	0	0	0	0	0	0	1
1103 POLIOVIRUS TYPE 3	1	0	0	0	1	0	0	2
1200 MUMPS VIRUS	1	0	0	0	1	0	0	2
1300 HERPES VIRUS GROUP - NOT TYPED	1	0	0	4	0	0	4	9
1301 HERPES SIMPLEX VIRUS - NOT TYP	63	0	88	4	0	12	0	167
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	5	1	0	10	13	0	0	29
1303 VARICELLA-ZOSTER VIRUS	6	3	0	2	4	0	1	16
1306 HERPES SIMPLEX TYPE 1	11	0	0	38	20	3	0	72
1307 HERPES SIMPLEX TYPE 2	47	0	0	64	20	6	0	137
1399 HERPES VIRUS TYPING PENDING	0	4	0	2	0	0	0	6
1401 COXIELLA BURNETII	4	0	0	0	0	0	0	4
1502 PICORNIA VIRUS - NOT TYPED = E	5	0	29	10	0	0	0	44
1521 MEASLES VIRUS	2	4	0	0	1	0	1	8
1522 RUBELLA VIRUS	6	2	0	5	18	1	2	34
1532 HEPATITIS B ANTIGEN	36	0	16	33	12	1	4	102
1535 HEPATITIS A ANTIBODY	1	0	0	2	3	0	0	6
1541 CHLAMYDIA A - C. TRACHOMATIS	1	0	27	113	60	34	4	239
1555 PAPOVAVIRUS GROUP (PAPILLOMA -	2	0	0	0	0	0	0	2
1556 CMV - CYTOMEGALOVIRUS	8	4	7	2	3	0	0	24
1564 ROTAVIRUS	20	0	0	1	9	13	0	43
1565 CALICI VIRUS	2	0	0	0	0	0	0	2
1599 ENTEROVIRUS TYPING PENDING	8	1	0	0	0	0	0	9
9992 ROSS RIVER VIRUS	0	0	0	4	2	1	0	7
9993 ASTROVIRUS	2	0	0	0	0	0	0	2
9994 SMALL VIRUS (LIKE) PARTICLE	3	0	0	0	0	0	0	3
TOTAL	297	81	185	323	199	82	19	1186

NOTE: DIRECT COMPARISON BETWEEN STATES IS NOT POSSIBLE SINCE:
 - SOME STATES HAVE MORE THAN ONE CONTRIBUTING LABORATORY; AND
 - INTERSTATE REFERRALS OCCUR REGULARLY.

AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

VIRAL IDENTIFICATIONS BY CLINICAL INFORMATION TABLE 1

PERIOD 18/1/90 TO 31/1/90

- 1. CODE 00, 99 - NO ILL OR DATA
- 2. CODE 01, 02, 11, 12 - RESPIRATORY
- 3. CODE E3 - ENCEPHALITIS
- 4. CODE M3 - MENINGITIS
- 5. CODE 04 - PARALYSIS
- 6. CODE 05, 13 - CNS OTHER UNSPEC
- 7. CODE 07, 49 - GASTRO INTESTINAL
- 8. CODE 17, 47 - HEPATIC
- 9. CODE 19 ... - CVS
- 10. CODE 89 ... - URINARY TRACCT
- 11. CODE 06 ... - SKIN MUCOUS

	1	2	3	4	6	7	8	10	11	TOTAL
0100 ADENOVIRUS NOT TYPED	2	15	0	0	0	8	0	0	1	26
0101 ADENOVIRUS TYPE 1	0	8	0	0	0	6	0	0	0	14
0102 ADENOVIRUS TYPE 2	1	10	0	0	0	4	0	0	0	15
0103 ADENOVIRUS TYPE 3	1	6	0	0	0	2	0	0	0	9
0105 ADENOVIRUS TYPE 5	0	4	0	0	0	0	0	0	0	4
0199 ADENOVIRUS TYPING PENDING	0	4	0	0	0	1	0	0	0	5
0201 INFLUENZA A VIRUS	1	5	0	0	0	0	0	0	0	6
0301 PARAINFLUENZA VIRUS TYPE 1	1	5	0	0	0	0	0	0	0	6
0303 PARAINFLUENZA VIRUS TYPE 3	1	17	0	0	0	0	0	0	0	18
0399 PARAINFLUENZA VIRUS TYPING PEN	0	2	0	0	0	0	1	0	0	3
0400 RESPIRATORY SYNCYTIAL VIRUS (R	0	5	0	0	0	0	0	0	0	5
0500 RHINOVIRUS (ALL TYPES)	2	23	0	0	0	1	0	0	1	27
0600 MYCOPLASMA PNEUMONIAE	4	18	0	0	0	0	0	0	0	22
0700 ORNITHOSIS-PSITTACOSIS	0	1	0	0	0	0	0	0	0	1
0809 COXSACKIEVIRUS A9	0	0	0	1	0	0	0	0	0	1
0816 COXSACKIEVIRUS A16	1	0	0	0	0	0	0	0	2	3
0902 COXSACKIEVIRUS B2	0	1	0	1	0	0	0	0	0	2
0903 COXSACKIEVIRUS B3	0	1	0	2	0	0	0	0	0	3
0904 COXSACKIEVIRUS B4	0	2	0	0	0	0	0	0	0	2
0905 COXSACKIEVIRUS B5	0	1	0	0	0	0	0	0	0	1
1001 ECHOVIRUS TYPE 1	1	0	0	0	0	0	0	0	0	1
1003 ECHOVIRUS TYPE 3	0	0	0	0	0	1	0	0	0	1
1006 ECHOVIRUS TYPE 6	0	1	0	0	0	1	0	0	0	2
1007 ECHOVIRUS TYPE 7	0	0	1	0	0	0	0	0	0	1
1011 ECHOVIRUS TYPE 11	1	0	0	3	0	0	0	0	0	4
1028 ECHOVIRUS TYPE 28 = RHINO VIRU	0	1	0	0	0	0	0	0	0	1
1029 ECHOVIRUS TYPE 29	1	0	0	0	0	0	0	0	0	1
1100 POLIOVIRUS NOT TYPED	0	2	0	0	0	1	0	0	0	3
1102 POLIOVIRUS TYPE 2	0	0	0	0	0	1	0	0	0	1
1103 POLIOVIRUS TYPE 3	1	0	0	0	0	0	0	0	0	1
1200 MUMPS VIRUS	1	0	0	1	0	0	0	0	0	2
1300 HERPES VIRUS GROUP - NOT TYPED	0	0	0	0	0	0	0	0	6	6
1301 HERPES SIMPLEX VIRUS - NOT TYP	19	7	0	0	0	0	0	1	68	95
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	5	0	0	0	0	1	1	0	0	7
1303 VARICELLA-ZOSTER VIRUS	4	1	0	0	0	0	0	0	9	14
1306 HERPES SIMPLEX TYPE 1	1	2	0	0	0	0	0	0	51	54
1307 HERPES SIMPLEX TYPE 2	3	0	0	0	0	0	0	0	61	64
1399 HERPES VIRUS TYPING PENDING	0	1	0	0	0	0	0	0	4	5
1502 PICORNIA VIRUS - NOT TYPED = E	2	11	0	1	7	16	0	1	3	41
1521 MEASLES VIRUS	1	0	1	0	0	0	0	0	5	7
1522 RUBELLA VIRUS	6	0	2	0	0	0	0	0	16	24
1532 HEPATITIS B ANTIGEN	46	0	0	0	0	2	49	0	0	97
1535 HEPATITIS A ANTIBODY	0	0	0	0	0	0	6	0	0	6
1541 CHLAMYDIA A - C. TRACHOMATIS	9	0	0	0	0	0	0	0	0	9
1555 PAPOVAVIRUS GROUP (PAPILLOMA -	0	0	0	0	0	0	0	2	0	2
1556 CMV - CYTOMEGALOVIRUS	3	5	0	0	0	1	1	4	1	15
1564 ROTAVIRUS	6	0	0	0	0	36	0	0	0	42
1565 CALICI VIRUS	2	0	0	0	0	0	0	0	0	2
1599 ENTEROVIRUS TYPING PENDING	0	1	0	1	0	6	0	0	0	8
9992 ROSS RIVER VIRUS	2	0	0	0	0	0	0	0	0	2
9993 ASTROVIRUS	0	0	0	0	0	2	0	0	0	2
9994 SMALL VIRUS (LIKE) PARTICLE	0	0	0	0	0	3	0	0	0	3
TOTAL	128	160	4	10	7	93	58	8	228	696

AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

VIRAL IDENTIFICATIONS BY CLINICAL INFORMATION TABLE 2

PERIOD 18/1/90 TO 31/1/90

- | | |
|--------------------------------------|-----------------------------|
| 12. CODE 10 - EYE | 17. CODE 69 - CONGENITAL |
| 13. CODE 59 - GENITAL | 18. CODE P8 - PUO |
| 14. CODE 39 - ENDOCRINE/SALIVARY GL. | 19. CODE G8 - FEVER/MALAISE |
| 15. CODE 38 - RETICULO-ENDOTHELIAL | 20. CODE 09 - OTHER |
| 16. CODE 29 - MUSCLE/JOINT | 21. CODE A1 - SIDS |

	12	13	14	15	16	17	18	19	20	21	TOTAL
0100 ADENOVIRUS NOT TYPED	2	0	0	0	0	0	0	0	0	0	2
0101 ADENOVIRUS TYPE 1	0	0	0	0	0	0	0	2	1	0	3
0102 ADENOVIRUS TYPE 2	0	0	0	1	0	0	0	1	0	0	2
0103 ADENOVIRUS TYPE 3	6	1	0	0	0	0	0	1	0	0	8
0104 ADENOVIRUS TYPE 4	1	0	0	0	0	0	0	0	0	0	1
0105 ADENOVIRUS TYPE 5	0	0	0	0	0	0	0	1	0	0	1
0106 ADENOVIRUS TYPE 8	1	0	0	0	0	0	0	0	0	0	1
0120 ADENOVIRUS TYPE 20	0	1	0	0	0	0	0	0	0	0	1
0130 ADENOVIRUS TYPE 30	0	0	0	0	0	0	0	0	1	0	1
0301 PARAINFLUENZA VIRUS TYPE 1	0	0	0	0	0	0	0	0	1	0	1
0303 PARAINFLUENZA VIRUS TYPE 3	0	0	0	0	0	0	0	1	0	0	1
0500 RHINOVIRUS (ALL TYPES)	0	0	0	0	0	0	0	0	2	1	3
0600 MYCOPLASMA PNEUMONIAE	0	0	0	0	0	0	1	0	1	0	2
1003 ECHOVIRUS TYPE 3	0	0	0	0	0	0	1	0	0	0	1
1101 POLIOVIRUS TYPE 1	0	0	0	0	0	0	0	0	1	0	1
1103 POLIOVIRUS TYPE 3	0	0	0	0	0	0	0	0	0	1	1
1300 HERPES VIRUS GROUP - NOT TYPED	0	2	0	0	0	0	0	1	0	0	3
1301 HERPES SIMPLEX VIRUS - NOT TYP	2	70	0	0	0	0	0	0	0	0	72
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	0	0	18	2	0	0	0	2	0	0	22
1303 VARICELLA-ZOSTER VIRUS	0	0	0	0	0	0	0	0	2	0	2
1306 HERPES SIMPLEX TYPE 1	2	15	0	0	0	0	0	0	0	1	18
1307 HERPES SIMPLEX TYPE 2	0	73	0	0	0	0	0	0	0	0	73
1399 HERPES VIRUS TYPING PENDING	0	1	0	0	0	0	0	0	0	0	1
1401 COXIELLA BURNETII	0	0	0	0	0	0	4	0	0	0	4
1502 PICORNIA VIRUS - NOT TYPED = E	0	0	0	0	0	0	1	0	0	2	3
1521 MEASLES VIRUS	0	0	0	0	0	0	0	1	0	0	1
1522 RUBELLA VIRUS	0	0	4	0	2	0	0	1	3	0	10
1532 HEPATITIS B ANTIGEN	0	0	0	0	0	0	0	0	5	0	5
1541 CHLAMYDIA A - C. TRACHOMATIS	3	227	0	0	0	0	0	0	0	0	230
1556 CMV - CYTOMEGALOVIRUS	1	1	0	0	1	1	0	3	2	0	9
1564 ROTAVIRUS	0	0	0	0	0	0	0	0	1	0	1
1599 ENTEROVIRUS TYPING PENDING	0	0	0	0	0	0	0	0	1	0	1
9992 ROSS RIVER VIRUS	0	0	0	0	5	0	0	0	0	0	5
TOTAL	18	391	22	3	8	1	7	14	21	5	490