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# Communicable Diseases Intelligence

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## Contents:

**Editor**  
Dr Robert Hall

- . Overseas briefs
- 1. Influenza in the Northern Hemisphere
- 2. Cholera in Benin
- 3. Plague in Tanzania
- . Nosocomial infection, Royal Alexander Hospital  
for Children
- . AIDS update, International
- . CDI 1990 Index
- . CDI Notice to Readers - conference
- . CDI Reporting Scheme

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## OVERSEAS BRIEFS

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### 1. INFLUENZA IN NORTHERN HEMISPHERE

As of 25 January 1991 the World Health Organization reports the following details of influenza activity in the Northern Hemisphere:

Europe: sporadic or no activity

USA: outbreaks reported in 9 states prior to mid-December.

Influenza A (H1N1) isolated in Finland, Italy, Sweden and the USA.

Influenza A (H3N2) isolated in Canada, Egypt, Japan, Republic of Korea and the USA.

Influenza B most frequently reported in Canada, Czechoslovakia, Finland, France, Hong Kong, Netherlands, Spain, Switzerland, Thailand, United Kingdom and the USA.

### 2. CHOLERA IN BENIN

The outbreak of cholera which began in the Atlantique department in late December 1990 is continuing and 395 cases have been reported to 1 February 1991.

### EDITORIAL STAFF:

Mr Geoff Davis, Dr Marcus Hodge, Dr Esther Vance, Dr Leslee Roberts, Mr Lundy Keo, Ms Lenore Cupitt and  
Ms Michelle Low

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### 3. PLAGUE IN TANZANIA

Six cases of pneumonic plague have been reported from a Medical Centre in Dar-es-Salaam during the period 24 December 1990 to 6 January 1991. Five of the patients contracted the infection during a brief visit to Lushoto District in Tanga Region in December. This district is a plague focus and currently experiencing an epidemic.

The sixth case was a nurse of the Medical Centre who contracted the disease from one of the patients.

The Ministry of Health has alerted the general public and health workers have been instructed to intensify surveillance.

## HOSPITAL-ACQUIRED INFECTIONS: A CROSS-SECTIONAL PREVALENCE SURVEY

(Reproduced with acknowledgement from *Monthly Infectious Diseases Report, Royal Alexander Hospital for Children, August 1990 (10)*, editor D Isaacs)

Hospital-acquired or nosocomial infections (HAI) are an important cause of morbidity and even mortality. Infection control and surveillance programmes can reduce the incidence of HAI but are expensive and enormously time consuming<sup>1</sup>. However, such longitudinal studies of HAI are fraught with the difficulty of identifying infections in short stay patients. An alternative approach is to perform regular cross-sectional surveys of the prevalence of HAI on a single day. If these are repeated, say every 6 months, they can be used to evaluate the effectiveness of an infection control policy<sup>2</sup>. Given our limited resources we decided to use this approach.

On July 19th 1990 a team comprising Apax Dede, Bridget Hales, Dianne Heywood-Barnes, Gillian Eagles, David Isaacs, Patrick Moore and Anne Weedon, surveyed every child in the Royal Alexander Hospital for Children, excluding day stay patients. Using a questionnaire, the team obtained information on the prevalence of HAI and community-acquired infections. Computerisation and analysis of the results was done with the assistance of B Nicholson and M Hanlon from the Department of Immunology and Infectious Diseases.

### Definition of hospital-acquired infection (HAI):

Any infection acquired during current hospitalisation or as a result of past hospital-based surgical procedure, e.g. indwelling central venous catheter, intraventricular CSF shunt, but excluding community-acquired infections.

### Definition of community-acquired infection (CAI):

Child admitted with infection or developing an infection in hospital within the incubation period of that infection.

Number of inpatients on day of study: 191

Number with HAI: 24 (12.6%)

Number with CAI: 47 (25%)

We examined various risk factors known or suspected to be associated with HAI:

DURATION OF HOSPITAL STAY AND PREVALENCE OF HAI:		
HOSPITAL STAY (DAYS)	NO. WITH HAI (%)	TOTAL
0-7	6 (5%)	120
8-14	4 (15%)	27
15-21	3 (23%)	13
>21	11 (35%)	31
TOTAL	24 (12.6%)	191

$\chi^2 = 19.3$   
p < 0.001

AGE AND PREVALENCE OF HAI:		
AGE (MONTHS)	NO. WITH HAI (%)	TOTAL
<1	4 (25%)	16
1-12	10 (18%)	57
13-24	2 (11%)	18
25-36	2 (15%)	13
37-48	0	8
49-60	1 (8%)	13
>60	5 (8%)	66
TOTAL	24	191

$\chi^2 = 4.4$   
p < 0.05

SEX AND PREVALENCE OF HAI:		
SEX	NO. WITH HAI (%)	TOTAL
Male	14 (12%)	120
Female	10 (14%)	71

$\chi^2 = 0.25$   
Not significant

INTENSIVE CARE AND PREVALENCE OF HAI:		
INTENSIVE CARE	NO. WITH HAI (%)	TOTAL
Yes	10 (26%)	38
No	14 (9%)	153
TOTAL	24	191

$\chi^2 = 8.2$   
p < 0.005

HOSPITAL SERVICE AND PREVALENCE OF HAI:		
SERVICE	HAI (%)	TOTAL
General medical	2 (6%)	36
Respiratory	1 (9%)	11
Gastroenterology	1 (12%)	8
Onocology	2 (13%)	15
Other medical	0	14
ALL MEDICAL*	6 (7%)	84
General surgical	0	12
Neurosurgical	4 (22%)	18
Orthopaedic	1 (4%)	22
Burns	1 (14%)	7
Other surgical	3 (12%)	25
ALL SURGICAL*	9 (11%)	84
Neonatal medical	6 (33%)	18
Neonatal surgical	1	1
Neonatal medical and surgical	2	4
ALL NEONATAL	9 (39%)	23

$\chi^2 = 17.2$   
p < 0.001  
for medical, surgical & neonatal groups. No difference between medical & surgical patients (excluding neonates).

\* Excluding neonates

RECENT SURGERY (THIS ADMISSION) AND PREVALENCE OF HAI:			
RECENT SURGERY	HAI (%)	TOTAL	
Yes	21 (23%)	91	
No	3 (3%)	100	$\chi^2 = 17.5$ $p < 0.001$
TOTAL	24	191	

IMMUNOSUPPRESSION AND PREVALENCE OF HAI:			
IMMUNOSUP-PRESSED	HAI (%)	TOTAL	
Yes	4 (18%)	22	
No	20 (12%)	169	$\chi^2 = 0.72$ $p > 0.05$ Not significant
TOTAL	24	191	

PRESENCE OF ENDOTRACHEAL TUBE (ETT) AND PREVALENCE OF HAI:			
ETT	HAI (%)	TOTAL	
Yes	4 (44%)	9	
No	20 (11%)	182	$p = 0.01$ , Fisher's exact test.
TOTAL	24	191	

MEAN DURATION OF ENDOTRACHEAL INTUBATION AND PREVALENCE OF HAI:			
HAI	DURATION OF ETT (MEAN SD)	ACTUAL DURATION OF ETT (DAYS)	
Yes	22.3 (11.7) days	12, 13, 28, 36	
No	2.8 (2.2) days	1, 1, 1, 1, 6	
		$t = 3.69$ , 7 d.f. $p < 0.01$	

PRESENCE OF INTRAVENOUS OR INTRA-ARTERIAL CANNULA & PREVALENCE OF HAI:			
INTRAVASCULAR DEVICE	HAI (%)	TOTAL	
Yes	15 (18%)	82	
No	9	109	$\chi^2 = 4.3$ $p < 0.05$
TOTAL	24	191	

NATURE OF HOSPITAL-ACQUIRED INFECTIONS:	
INFECTION	NO.
Pneumonia	4
Line-associated septicaemia	3
Shunt infection	3
Necrotising enterocolitis	3
UTI	2
Conjunctivitis	2
RSV bronchiolitis	2
Wound infection	2
Gastroenteritis	1
Otitis media	1
Liver transplant-related	1
TOTAL	24

WAS THE HAI CONSIDERED TO BE PREVENTABLE?	
Not preventable	14
Possibly preventable	6
Definitely preventable	4
TOTAL	24

To summarise these results, it was found that 25% of children in the hospital had a community-acquired infection and 12.6% had a hospital-acquired infection. This is at the high end of the reported prevalence of HAI in various studies,<sup>1,3</sup> although the prevalence will evidently be strongly dependent on the population in the hospital. Known risk factors for HAI are severe underlying disease (including immunosuppression), previous operation, prolonged admission and admission to neonatal intensive care<sup>1</sup>. It was confirmed that most of these were associated with a significantly increased risk of HAI. The risk from recent surgery was over-estimated because some sick children with medical problems had surgery to insert central venous catheters, perform exploratory laparotomy, etc. A truer estimate of the relative risk for surgical patients is given in the previous table, when no significant difference was found between the rate of HAI in medical and surgical non-neonatal patients. The most important

aspect of this study was to identify preventable causes of HAI, to raise awareness of HAI in staff and to provide baseline data for regular 6-monthly studies of HAI prevalence.

**References**

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2. Haley RW, Culber DH, White JW, et al. The efficacy of infection surveillance and control programs in preventing nosocomial infections in U.S. hospitals. *Amer J Epidemiol* 1985;121:182-205.
3. Haley RW, Culber DH, White JW, et al. The nationwide nosocomial infection rate: a new need for vital statistics. *Amer J Epidemiol* 1985;121:159-67.

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**AIDS UPDATE, INTERNATIONAL - 13 DECEMBER 1990**

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(Based on WER 1991;66:1-2)

As at 31 December 1990 a global total of 314,611 cases of AIDS had been reported to the World Health

Organization. This represents an increase of 48,513 over the six month period since 30 June 1990.

Country/Area	Number of cases	Date of report
AFRICA		
Algeria	45	20/05/90
Angola	104	31/12/88
Benin	124	21/08/90
Botswana	87	17/01/90
Burkina Faso	978	11/06/90
Burundi	3305	31/8/90
Cameroon	78	31/03/89
Cape Verde	32	30/06/90
Central African Republic	662	31/12/89
Chad	35	01/07/90
Comoros	2	30/04/90
Congo	1940	31/12/89
Cote d'Ivoire	3647	01/02/90
Djibouti	28	05/08/90
Egypt	25	30/09/90
Equatorial Guinea	3	27/06/89
Ethiopia	531	31/10/90

Country/Area	Number of cases	Date of report
Gabon	64	31/03/90
Gambia	81	08/03/90
Ghana	1732	31/07/90
Guinea	161	30/07/90
Guinea-Bissau	123	29/03/90
Kenya	9139	31/05/90
Lesotho	11	27/04/90
Liberia	5	01/04/90
Libyan Arab Jamahiriya	1	14/02/90
Madagascar	2	26/11/90
Malawi	7160	08/01/90
Mali	338	30/06/90
Mauritania	16	15/04/90
Mauritius	5	05/04/90
Morocco	52	13/09/90
Mozambique	151	15/11/90
Namibia	311	31/05/90
Niger	149	20/07/90
Nigeria	48	15/03/90
Reunion	49	17/05/90
Rwanda	3407	30/06/90
Sao Tome and Principe	1	30/09/90
Senegal	307	08/03/90
Seychelles	-	22/05/90
Sierra Leone	21	30/06/89
Somalia	15	14/02/90
South Africa	590	01/11/90
Sudan	265	01/10/90
Swaziland	14	16/06/88
Togo	100	01/06/90
Tunisia	50	28/09/90
Uganda	17422	30/06/90
United Republic of Tanzania	7128	27/07/90
Zaire	11732	31/01/90
Zambia	3494	31/08/90
Zimbabwe	5249	30/09/90
Total	81019	

AMERICAS		
Anguilla	4	30/09/90
Antigua and Barbuda	3	31/03/89
Argentina	710	30/06/90
Bahamas	554	30/09/90
Barbados	145	30/09/90
Belize	11	30/09/88
Bermuda	147	30/06/90
Bolivia	22	30/09/90
Brazil	12405	30/06/90
British Virgin Islands	2	30/09/90
Canada	4427	31/08/90
Cayman Islands	6	30/09/90

Country/Area	Number of cases	Date of report
Chile	178	31/12/89
Colombia	764	30/09/90
Costa Rica	206	30/09/90
Cuba	71	30/09/90
Dominica	12	30/06/90
Dominican Republic	1423	30/09/90
Ecuador	100	30/09/90
El Salvador	235	30/09/90
French Guiana	232	30/09/90
Grenada	19	30/06/90
Guadeloupe	195	24/04/90
Guatemala	121	30/09/90
Guyana	108	30/06/90
Haiti	2456	31/12/89
Honduras	939	30/09/90
Jamaica	166	30/06/90
Martinique	142	30/09/90
Mexico	5113	31/10/90
Montserrat	1	30/09/90
Nicaragua	8	30/06/90
Panama	203	30/06/90
Paraguay	16	31/03/90
Peru	352	31/03/90
Saint Kitts and Nevis	18	31/12/88
Saint Lucia	18	30/09/90
Saint Vincent and the Grenadines	26	30/09/90
Suriname	75	30/09/90
Trinidad and Tobago	693	30/09/90
Turks and Caicos Islands	8	30/12/88
United States of America	154791	31/11/90
Uruguay	148	30/09/90
Venezuela	938	30/09/90
Total	188211	

ASIA		
Afghanistan	-	30/04/90
Bahrain	-	30/04/90
Bangladesh	1	30/09/90
Bhutan	-	31/08/90
Brunei Darussalam	1	01/06/89
Burma <i>see</i> Myanmar		
China	5 <sup>a</sup>	15/11/90
Cyprus	18	31/07/90
Democratic People's Republic of Korea	-	31/07/90
Hong Kong	27	31/08/90
India	52	30/09/90
Indonesia	9	31/08/90
Iran (Islamic Republic of)	10	30/06/90

Country/Area	Number of cases	Date of report
Iraq	-	30/04/90
Israel	125	30/09/90
Japan	294	31/10/90
Jordan	10	20/08/90
Kuwait	1	14/02/90
Lebanon	19	19/10/90
Macao	-	19/11/90
Malaysia	15	24/08/90
Maldives	-	31/08/90
Mongolia	-	05/11/90
Myanmar	-	31/07/90
Nepal	4	31/08/90
Oman	19	31/08/90
Pakistan	13	30/06/90
Philippines	37	28/09/90
Qatar	23	29/08/90
Republic of Korea	7	10/10/90
Saudi Arabia	28	16/06/90
Singapore	21	25/07/90
Sri Lanka	6	31/08/90
Syrian Arab Republic	9	30/06/90
Thailand	69	30/09/90
Turkey	41	31/10/90
United Arab Emirates	8	21/10/90
Viet Nam	-	30/11/90
Yemen	-	05/03/90
Total	872	

EUROPE		
Albania	-	30/06/90
Austria	474	30/09/90
Belgium	764	30/09/90
Bulgaria	7	30/09/90
Czechoslovakia	24	30/09/90
Denmark	705	30/11/90
Finland	71	30/09/90
France	9718	31/03/90
Germany	5500	30/11/90
Greece	375	30/09/90
Hungary	48	30/11/90
Iceland	14	30/06/90
Ireland	161	30/09/90
Italy	7576	30/09/90
Luxembourg	30	30/09/90
Malta	15	30/09/90
Monaco	4	30/09/90
Netherlands	1487	30/11/90
Norway	185	30/11/90
Poland	47	30/11/90
Portugal	522	30/11/90

Country/Area	Number of cases	Date of report
Romania	1055	31/10/90
San Marino	1	30/06/90
Spain	7047	30/09/90
Sweden	487	30/09/90
Switzerland	1548	31/10/90
USSR	40	30/06/90
United Kingdom	3884	31/10/90
Yugoslavia	158	27/11/90
Total	41947	

OCEANIA		
Australia	2295	02/11/90
Cook Islands	-	08/09/87
Federated States of Micronesia	1	02/05/90
Fiji	1	10/04/90
French Polynesia	16	30/06/90
Kiribati	-	18/01/88
Mariana Islands	-	05/08/87
New Caledonia and Dependencies	14	14/08/90
New Zealand	207	30/07/90
Palau	-	30/04/90
Papua New Guinea	26	25/11/90
Samoa	-	18/10/88
Solomon Islands	-	08/09/87
Tonga	2	24/07/90
Tuvalu	-	08/09/87
Vanuatu	-	20/02/90
Total	2562	
World Total	314611	

a Does not include 14 cases in the Province of Taiwan

- Nil

## CDI INDEX 1990

Entries indicate issue/page number.

VRS = Viruses, Chlamydias, Coxiellas, Rickettsias and

Mycoplasmas Reporting Scheme

NVPR = Non-viral Pathogen Reports

### ACT

- Measles 25/8

*Actinobacillus actinomycetemcomitans*

- NVPR 25/2

*Actinomyces israelii*

- NVPR 24/2

**Adenovirus**

- Type 1, VRS 2/1

*Aeromonas hydrophila*

- NVPR 24/2

**AIDS conference, Australia**

- abstracts 23/5, 25/13

**AIDS diagnostic methods**

- WHO 9/13

**AIDS surveillance**

- Australia 3/4, 6/10, 8/10, 10/11, 12/2, 14/2, 16/3, 19/4, 20/7, 23/3, 2/16
- Australia (supplementary report) 25/11

**AIDS updates**

- international 2/6, 6/13, 15/12
- Romania 6/15

**Algeria**

- cholera 21/3

**Alphaviral disease**

- Epidemic polyarthritis handbook and patient information sheet 1/9
- Sindbis virus, VRS 7/2

**Americas**

- Increase in Dengue Haemorrhagic Fever cases 1980-87 3/2

**Angola**

- cholera outbreak 4/2, 8/1

**Antibiotic susceptibilities**

- PMH, Perth 13/3

**Arbovirus surveillance**

- USA 22/13
- Australia (Victoria) 22/9

**Australia**

- AIDS surveillance see HIV surveillance, Australia
- Notifiable Diseases 2/8, 2/10, 3/9, 3/10
- Pertussis 1985-9 6/4
- Salmonella outbreaks 4/3
- Influenza - see entry under Influenza

**Australian encephalitis (AE)**

- Fatal Case 7/3, 8/3
- Epidemic prediction 7/4
- VRS 13/2

**Australian National Council on AIDS**

- Bulletin No 2&4 9/5
- Bulletin No 3 12/4

**Austria**

- Influenza 12/2

**Bacterial infections, enteric**

- Salmonella, Australian outbreaks 4/3
- meningitis 24/12

**Bacteroides fragilis**

- NVPR 19/2

**Barmah Forest Disease**

- VRS 7/2

**Bolivia**

- Yellow fever 11/2

**Botulism**

- Infant case 11/18

**Brucellosis**

- Australia NVPR 21/3

**Calicivirus**

- VRS 16/2

**Campylobacter pylori**

- renamed as *Helicobacter pylori* 2/4

**Cameroon**

- Yellow fever 25/3

**Canada**

- Influenza 3/2
- imported Marburg virus case 4/3

**Candida albicans**

- NVPR 16/3, 22/3

**Cholera**

- Global 1989 11/20

- Algeria 21/3
- Angola 4/2, 8/1
- Fed States of Micronesia 12/2
- France 21/3
- Ghana 25/3
- Guam 22/3
- India 4/2, 5/3
- Iraq 16/3
- Jordan 19/3
- Kenya 1/2, 4/2
- Malawi 7/3, 9/3, 10/3
- Malaysia 4/2, 6/2, 9/3
- Morocco 21/3
- Mozambique 11/2, 18/3, 21/3
- Nepal 15/3, 16/3, 18/3
- Romania 16/3, 18/3, 21/3
- Spain 21/3
- Tuvalu 17/2
- USSR 17/2
- Zambia 4/2, 5/2, 6/2, 7/3, 10/4

### ***Coxiella burneti***

- see Q fever

### **Coxsackie virus**

- type A9 VRS 23/2, 24/1
- type B2 VRS 17/1, 23/2, 25/2
- type B3 VRS 7/2
- type B4 VRS 22/1

### **Cryptococcal meningitis**

- NVPR 13/2, 21/3

### ***Cryptococcus neoformans***

- NVPR 21/3, 24/2, 25/21

### **Cryptosporidium sp**

- NVPR 17/1

### **Cytomegalovirus**

- VRS 6/2, 8/3, 9/1, 11/2, 16/1

### **Dengue**

- Fiji 3/1, 6/2, 8/1, 9/3, 11/2, 12/2, 13/3, 14/2
- French Polynesia 3/1
- increase in number of cases of Dengue Haemorrhagic Fever, Americas, 1980-87 3/2
- Maldives 22/3
- Marshall Islands 3/2
- Micronesia 10/4
- Queensland VRS 15/1, 20/2, 21/2
- Samoa and Tokelau 3/2
- Trinidad and Tobago 5/3
- Vanuatu 3/2, 4/2, 10/4
- Venezuela 1/2, 2/2, 5/3
- VRS 5/1, 7/2, 10/3, 13/1, 24/1
- Wallis and Futuna Is 3/2

### **Ebola virus**

- in primates, USA 1/8, 6/2
- primate update and interim guidelines for handling non-human primates 4/6, 9/11

### **Echovirus**

- type 2, VRS 22/1
- type 3, VRS 6/1
- type 11, VRS 4/2, 12/1
- type 27, VRS 6/1

### ***Eikenella corrodens***

- NVPR 24/2

### **Encephalitis**

- Fiji acquired 20/13

### **Enteric infections**

- Norwalk-type virus, UK Hospital outbreak 5/8
- Salmonella outbreaks Australia 4/3

- enteric pathogen summary, Western Australia 21/4

### ***Enterobacter aerogenes***

- NVPR 19/2

### ***Enterobacter agglomerans***

- NVPR 19/2

### ***Enterobius vermicularis***

- NVPR 25/3

### **Enterovirus**

- type 70 VRS 10/3, 11/1

- type 71 VRS 7/2, 8/1, 17/1, 25/2

- untyped VRS 6/2, 13/2, 15/1

### **Epidemic Polyarthritits**

- Clinical Handbook 1/9

- Ross River Virus isolations VRS 5/2

- eastern Australia 22/5

### **Epstein-Barr virus**

- VRS 11/2

### ***Escherichia coli***

- NVPR 17/2, 19/2, 21/2-3, 22/3, 24/2, 25/2

### **Europe**

Influenza cases 1/2, 3/2, 19/4

### **Federated States of Micronesia**

- Cholera 12/2

### **Fiji**

- Dengue 3/1, 6/2, 8/1, 9/3, 11/2 12/2, 13/3, 14/2

- Influenza 12/2, 14/2

### **Filovirus**

- Ebola virus in primates 1/8, 6/2

- Ebola in primates, see Ebola virus

- Marburg virus case 4/3

- Editorial comment 9/12

### **Flavivirus**

- Australian encephalitis fatality 7/3

- AE epidemic prediction 7/4

- PNG visitor VRS 16/1

- surveillance, Victoria 22/9

### **Food-borne infections**

- *Bacillus cereus* food poisoning, S.Aust 9/4

- investigation, S. Aust 12/13

- Norwalk-type virus in UK hospital 5/8

- outbreak associated with oysters, Sydney 14/7

- Salmonella, Australian outbreaks 4/3

### **France**

- Measles, Mumps, Rubellas 10/12

- Cholera 21/3

### **French Polynesia**

- Dengue 3/1

### **Gastrointestinal tract infections**

- NVPR 24/3

- Tuvalu 24/3

### **Ghana**

- Cholera 25/3

### **Gonococcal infections**

- Australian surveillance 5/7, 16/6, 25/15

- Tetracycline resistant 6/9

### **Guam**

- Cholera 22/3

### ***Haemophilus influenzae***

- NVPR 17/2, 24/2, 25/3

### **Hajj pilgrimage**

- vaccination requirements 11/3

### **Hantaan virus**

- Australia 15/10

### ***Helicobacter pylori***

- new name for *Campylobacter pylori* 2/4

- NVPR 24/2, 25/3

### **Hepatitis C**

- antibody tests 7/8

- in blood transfusion 25/15

- VRS 5/2, 8/2, 9/1, 14/1

### Herpes virus

- Australia, VRS 15/2, 22/1

- Herpesvirus-6 VRS 18/1, 19/2

- Varicella-Zoster 25/17

- surveillance, Australia 3/4, 6/10, 8/10, 8/13, 10/11,

12/2, 14/2, 16/3, 19/4, 20/7, 23/3, 24/16

### HIV

- serological diagnosis in infants 2/2

### HTLV-1

- VRS 19/1

### Immunisation

- schedule, NHMRC 1990 25/4

### India

- cholera 4/2, 5/2

### Infants

- serological diagnosis of HIV 2/2

### Influenza

- Global 1989-90 8/15, 19/4-Asia 3/2

- Australia 10/5, 15/2, 16/5, 17/3, 18/3, 19/3, 21/4

- Australia, vaccine composition 23/2

- Austria 12/2

- Canada 3/2

- Europe 1/2, 3/2

- Fiji 12/2, 13/3, 14/2

- Japan 13/3

- Papua New Guinea 6/3, 10/3

- USA 1/2, 3/2, 12/23(prevention/control)

- VRS 5/2, 6/2, 10/3, 11/1, 15/2, 16/1, 18/1, 20/1, 23/1

### Iraq

- Cholera 16/3

### Jamaica

- Measles outbreak 1/2

- Typhoid 17/2

### Japan

- Influenza 13/3

### JC virus

- VRS 20/2

### Jordan

- Cholera 19/3

### Kenya

- Cholera 1/2, 4/2

- Marburg case 4/2

- Plague 19/3

### *Klebsiella oxytoca*

- NVPR 19/2

### Kunjin virus

- VRS 7/2

### Lassa Fever

- case report 7/9

### *Legionella pneumophila*

- England & Wales 1989 16/7

- Queensland NVPR 15/2

- South Australia 8/8

- WHO 8/9

### Leprosy

- Northern Territory 24/4

### Leptospirosis

- Australia NVPR 15/2

### Listeria

- Western Australia 24/9

### Lombok

- Malaria 13/2

### Lyme disease

- Australia 18/4, 25/9

### Madagascar

- Plague 5/3, 6,3 10/4

**Malaria**

- Global, 1988 17/9
- Lombok 13/2
- Queensland 17/5 (1989/90), 22/3, 23/2

**Maldives**

- Dengue 22/3

**Malawi**

- Cholera 7/3, 9/3, 10/3

**Malaysia**

- Cholera 4/2, 6/2, 9/3

**Marburg Virus**

- Swedish case 4/3

**Marshall Islands**

- Dengue 3/2

**Measles**

- ACT 25/8
- Aust National Campaign 11/10
- Benalla, Victoria 23/10
- Brisbane 10/5
- England & Wales 20/11
- NSW 20/9
- Jamaica outbreak 1/2
- South Aust, immunisation(& ed. comment) 11/13
- SSPE case 5/3
- USA 23/13
- Western Australia 23/12
- VRS 22/2, 25/2

**Measles, Mumps and Rubella**

- France 10/12

**Melioidosis**

- NVPR 16/3

**Meningococcal infection**

- meningitis, Africa 5/2
- meningitis, Uganda 13/11

- Northern Territory 18/12

- Western Australia 5/4, 20/12

- Victoria 8/4

**Micronesia**

- Dengue 10/4

**Morocco**

- Cholera 21/3

**Mozambique**

- Cholera 11/2, 18/3, 21/3

**MRSA**

- Royal Brisbane Hospital 12/16

**Namibia**

- Gastrointestinal disease emergency 11/2

**Nauru**

- Typhoid 9/3

**Nepal**

- Cholera 15/3, 16/3, 18/3

**New Zealand**

- Pertussis epidemic 13/6

***Neisseria meningitidis***

- NVPR 19/2, 22/3, 24/2, 25/3

**Northern Territory**

- Leprosy 24/4

**NHMRC**

- immunisation schedule, 1990 25/4

**Nigeria**

- Lassa Fever 7/9

**Norwalk-type virus**

- outbreak in UK hospital 5/8

**Notices to readers**

- STD Handbook 7/14
- NSW Public Health Bulletin 9/16
- contributions welcome 10/16
- mailing list alterations 17/18
- bulk mailing 18/15

**Notifiable Diseases (Australia)**

- Adjustments to periods 1-3/89 2/8
- period 4/89 2/8
- period 5/89 2/10
- period 6/89 3/9
- period 7/89 3/10
- 1989 19/6
- data reporting format 20/2, 22/4

**Papua New Guinea**

- Influenza 6/3, 10/3
- Dengue 8/2
- Typhoid 13/3

**Parainfluenza**

- NSW 14/4

***Pasteurella multocida***

- NVPR 18/2, 23/2

**Pertussis**

- Australia 1985-89 6/4
- NSW 13/8
- NZ epidemic 1990 13/6
- NVPR 17/2, 19/3, 21/3, 24/2, 25/3

**Philippines**

- Ebola virus in primates 1/8

**Plague**

- Madagascar 5/3, 6/3, 10/4
- Kenya 19/3

***Pleisiomonas shigelloides***

- NVPR 24/2

**Pregnancy**

- Rubella vaccinations 1/3

**Primates**

- Ebola virus 1/8, 4/6, 6/2
- Interim guidelines for handling non-human primates 4/6, 9/11

***Proteus mirabilis***

- NVPR24/2

***Pseudomonas* spp. bacteremia**

- Victoria 21/16

***Pseudomonas putrifaciens***

- NVPR 19/2

**Psittacosis**

- VRS 6/1, 7/1

**Q Fever**

- VRS 1/1, 2/1, 3/1, 4/1, 5/2, 6/2, 7/2, 8/3, 9/2, 10/1, 11/2, 12/1, 13/1, 14/1, 15/1, 16/1-2, 18/2, 19/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/2

**Quarantine**

- Australian requirements for imported primates 1/8, 4/6

**Rainfall**

- Prediction of Australian Encephalitis 7/4

**Rickettsial disease (spotted fever)**

- Australia 9/2

**Romania**

- AIDS 6/15
- Cholera 16/3, 18/3, 21/3

**Ross River Virus**

- see also epidemic polyarthrititis
- VRS 5/1, 6/1, 7/2, 8/2, 9/2, 10/1, 11/2

**Rubella**

- vaccination in pregnancy 1/3
- congenital 1/3
- VRS 1/1, 2/1, 3/1, 4/1, 5/2, 6/1, 7/1, 8/1, 9/1, 10/3, 11/1, 13/1, 14/1, 22/2, 24/1, 25/2

**Salmonella**

- Australian outbreaks 4/3
- Australian surveillance 11/3, 15/3, 21/4-14
- group C1 NVPR 19/2

- Choleraesuis var Kunzendorf 24/19

### Samoa and Tokelau

- Dengue 3/2

### Schistosomiasis

- US travellers from Africa 16/9

### Sentinel data collection

- blue-green algae scare 23/8

### Sexually Transmitted Diseases

- New handbook, notice 7/14

### *Shigella sonnei*

- NVPR 25/3

### Sindbis Virus

VRS 7/2

### Southern oscillation index (SOI)

- Prediction of Australian Encephalitis 7/4

- VRS 7/2

### Spain

- Cholera 21/3

### *Staphylococcus aureus*

- NVPR 17/2, 18/2, 19/2, 21/2, 22/3, 24/2, 25/3

### *Staphylococcus epidermidis*

- NVPR 18/2

### *Streptococcus agalactiae*

- NVPR 25/3

### *Streptococcus equisimilis*

- NVPR 19/2, 21/2

### *Streptococcus milleri*

- NVPR 17/2, 25/3

### *Streptococcus mitis*

- NVPR 19/2

### *Streptococcus pneumoniae*

- NVPR 17/2, 19/2, 21/2

### *Streptococcus salivarius*

- NVPPR 21/2

### *Streptococcus sanguis*

- NVPR 17/2, 22/3, 23/2

### Subacute Sclerosing Pan-encephalitis

- Australian case 5/3

### Sudden Infant Death Syndrome

- VRS 6/1, 8/1, 9/1,

### Toxoplasmosis

- Australia 9/2, 22/3

### Trinidad and Tobago

- Dengue 5/3, 6/2

### Tuberculosis

- Australia and NZ, booklet 13/14

- ACT 19/8

### Tuvalu

- Cholera 17/2

- gastroenteritis 24/3

### Typhoid

- Jamaica 17/2

- Nauru 9/3

- PNG 13/3

- Vaccine recall 11/3

- and Paratyphoid report, MDU 25/19

### Uganda

- Meningococcal meningitis 5/2

### United Kingdom

- Norwalk-type virus, hospital outbreak 5/3

### USA

- Influenza 1/2

### Vaccination

- Pregnancy-rubella 1/3

- NHMRC rec. (childhood) 25/4

### Vanuatu

- Dengue 3/2, 4/2, 10/4

### Victoria

- flavivirus surveillance 22/9

- measles (Benalla) 23/10

**USSR**

- Cholera 17/2

**Venezuela**

- Dengue 1/2, 2/2, 5/2

**Viral Haemorrhagic Fevers**

- Ebola in Primates, USA 1/8, 6/2
- Lassa fever case 7/9
- Marburg, Canadian case 4/3
- Update on Ebola in primates and interim guidelines for handling non-human primates 4/6

**Wallis and Futuna**

- Dengue 3/2

**Western Australia**

- Enteric pathogen summary 21/4

- Listeria 24/9

- Meningococcal outbreak 5/3

- 'measles' outbreaks 23/12

**Whooping Cough**

- see Pertussis

**Yellow Fever**

- Bolivia 11/2
- Cameroon 25/3

***Yersinia enterocolitica***

- NVPR 19/2, 25/3

**Zambia**

- Cholera 4/2, 7/3, 10/4

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## CDI NOTICE TO READERS - CONFERENCE

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**IMMUNISATION: THE OLD AND THE NEW**

The Public Health Association of Australia is convening the second national immunisation conference in Canberra from the 27-29 May 1991. The conference is designed around plenary sessions, structured workshops and proffered paper sessions.

The proposed program is:

**Day One - Monday 27 May**

Registration and Official Opening

Plenary *Global Outlook and Goals*

**Concurrent Sessions**

*Herd Immunity*

*Surveillance*

*Legislation*

Plenary *Panel discussion and delegate report back*

**Day Two - Tuesday 28 May**

Plenary *Increasing Immunisation Uptake*

**Concurrent Workshops**

*Dispelling the Myths*

*The Social Issues*

*Marketing Strategies*

*The Economic Issues*

**Concurrent Sessions**

*New Vaccine Developments*

*Immunisation Service Delivery*

Plenary *The Great Debate: Hepatitis B*

**Day Three - Wednesday 29 May**

Plenary *State of the Art: An Australian Overview, including*

*Role of General Practitioners*

*Role of Local Governments*

*Role of State Health Departments*

*Role of Environmental Health Officers*

Plenary *Is Disease Eradication Feasible*

Plenary *A National Immunisation Policy for Australia*

Proffered papers sessions will be held throughout the Conference.

Enquiries about Abstracts, Trade Exhibits or Registration should be directed to:

Jenny Maher

Immunisation Conference Secretariat

PO Box 746

TURRAMURRA NSW 2074

telephone (02) 449 1525

facsimile (02) 488 7496

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## CDI REPORTING SCHEME

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### VIRUSES, CHLAMYDIAS, COXIELLAS, RICKETTSIAS AND MYCOPLASMAS REPORTS

There were 994 reports processed for the period (16 January to 29 January 1991).

Q fever was reported on 7 occasions (2 females, 5 males). Ages of six patients ranged from 14 to 37, and no exposure details were provided.

Measles was reported on 25 occasions, 18 of the cases were from Victoria.

Coxsackie B7 was isolated in cerebrospinal fluid from a 35 year old pregnant woman on the day of delivery of her child. The virus was isolated from the neonates cerebrospinal fluid on days 6 and 17.

Serological evidence of influenza A was found in a 4 year old boy with a clinical presentation of myocarditis.

### NON-VIRAL PATHOGEN REPORTS

Nineteen (19) positive blood culture reports have been received since CDI Vol15/2 (14 reports were received from Toowoomba Base Hospital Pathology laboratory and 5 from Nambour hospital Pathology Laboratory). The following organisms were isolated:

- *Escherichia coli* from 5 patients, 3 males aged 23, 53 and 53 and 2 females; an infant less than 24 hours old with respiratory distress and jaundice and a 38 year old.
- *Neisseria meningitidis* group C from an 8 year old male.
- *Pseudomonas aeruginosa* from 2 female patients; one aged 70 years with concomitant *P. mirabilis* and the other aged 83 years, both patients subsequently died.

- *Salmonella sp* from a 78 year old male NIDDM patient who died from renal failure 36 hours after hospitalisation.
  - *Salmonella group B* from a 70 year old female with a history of SLE and pulmonary embolism.
  - *Staphylococcus aureus* from 3 patients; a 59 year old female with erythroderma psoriasis, a 62 year old male with acute pharyngitis and cervical lymphadenitis and a 66 year old female with chronic renal failure.
  - *Streptococcus agalactiae* (group B streptococcus) from a one week old female who had asphyxia at birth.
  - *Streptococcus pneumoniae* from a 2 year old female who had *Haemophilus influenzae* meningitis one month previously and a 63 year old male with septic shock who died 6 hours later.
  - *Streptococcus sanguis* from 2 female patients; one 65 years old with endocarditis and the other 73 years old with a history of pneumonia.
- 3 positive CSF reports were received (2 from Nambour Hospital Pathology Laboratory and one from Toowoomba Base Hospital Pathology Laboratory). The following organisms were identified:
- *Neisseria meningitidis* group C in 2 males aged 8 years (also in blood culture) and 20 years.
  - *Streptococcus pneumoniae* in a 2 year old female (also in blood culture)

*Bordetella pertussis* specific IgA was detected in the serum of a 4 year old female with paroxysmal cough and vomiting.

AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

VIRAL IDENTIFICATIONS FROM CONTRIBUTING LABORATORIES  
BASED ON DATE OF REPORTING

PERIOD 16/01/91 TO 29/01/91

CODE 019 - FAIRFIELD HOSPITAL, MELBOURNE (VIC)  
CODE 065 - STATE HEALTH LABORATORY SERVICES, PERTH (WA)  
CODE 066 - PRINCESS MARGARET HOSPITAL, PERTH (WA)  
CODE 110 - INSTITUTE OF MEDICAL & VETERINARY SCIENCE, ADELAIDE (SA)  
CODE 111 - ROYAL CHILDRENS HOSPITAL, MELBOURNE (VIC)  
CODE 112 - INSTITUTE OF CLINICAL PATHOLOGY & MEDICAL RESEARCH, WESTMEAD (NSW)  
CODE 114 - ROYAL ALEXANDRA HOSPITAL FOR CHILDREN, CAMPERDOWN (NSW)  
CODE 115 - STATE HEALTH LABORATORY, BRISBANE (QLD)

	019	065	066	110	111	112	114	115	TOTAL
AAAA HIV	0	3	0	0	0	0	0	0	3
0100 ADENOVIRUS NOT TYPED	0	3	5	2	2	9	0	3	24
0101 ADENOVIRUS TYPE 1	0	0	0	1	0	3	0	0	4
0102 ADENOVIRUS TYPE 2	2	0	0	0	0	0	0	0	2
0103 ADENOVIRUS TYPE 3	0	0	0	3	0	2	0	0	5
0104 ADENOVIRUS TYPE 4	1	0	0	0	0	0	0	0	1
0105 ADENOVIRUS TYPE 5	0	0	0	1	0	1	0	0	2
0107 ADENOVIRUS TYPE 7	1	0	0	0	0	0	0	0	1
0108 ADENOVIRUS TYPE 8	1	0	0	0	0	2	0	0	3
0109 ADENOVIRUS TYPE 9	0	0	0	1	0	0	0	0	1
0111 ADENOVIRUS TYPE 11	0	0	0	0	0	5	0	0	5
0135 ADENOVIRUS TYPE 35	1	0	0	0	0	0	0	0	1
0199 ADENOVIRUS TYPING PENDING	0	0	0	0	3	0	0	0	3
0201 INFLUENZA A VIRUS	0	1	0	3	0	0	1	0	5
0203 INFLUENZA B VIRUS	1	0	0	4	0	1	0	0	6
0301 PARAINFLUENZA VIRUS TYPE 1	0	0	3	0	0	1	0	0	4
0302 PARAINFLUENZA VIRUS TYPE 2	0	0	1	8	0	0	0	0	9
0303 PARAINFLUENZA VIRUS TYPE 3	0	0	2	25	12	6	1	0	46
0399 PARAINFLUENZA VIRUS TYPING PEN	0	0	1	0	1	0	0	0	2
0400 RESPIRATORY SYNCYTIAL VIRUS (R	0	3	1	3	0	1	0	0	8
0500 RHINOVIRUS (ALL TYPES)	3	0	0	0	4	1	0	1	9
0600 MYCOPLASMA PNEUMONIAE	4	1	0	8	9	4	0	0	26
0700 ORNITHOSIS-PSITTACOSIS	4	0	0	0	0	0	0	0	4
0809 COXSACKIEVIRUS A9	0	0	0	0	0	5	0	0	5
0902 COXSACKIEVIRUS B2	1	1	0	0	0	4	0	0	6
0904 COXSACKIEVIRUS B4	2	0	0	0	0	0	0	0	2
0905 COXSACKIEVIRUS B5	1	0	0	3	0	0	0	0	4
1005 ECHOVIRUS TYPE 5	0	0	0	1	0	0	0	0	1
1011 ECHOVIRUS TYPE 11	0	0	0	0	0	1	0	0	1
1015 ECHOVIRUS TYPE 15	0	0	0	1	0	0	0	0	1
1022 ECHOVIRUS TYPE 22	0	0	0	0	0	1	1	0	2
1024 ECHOVIRUS TYPE 24	0	0	0	1	0	0	0	0	1
1101 POLIOVIRUS TYPE 1	2	0	0	3	0	2	0	0	7
1103 POLIOVIRUS TYPE 3	0	0	0	2	0	0	0	0	2
1200 MUMPS VIRUS	0	0	0	1	1	0	0	0	2
1301 HERPES SIMPLEX VIRUS - NOT TYP	0	0	4	2	0	20	4	0	30
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	5	7	0	37	0	7	3	0	59
1303 VARICELLA-ZOSTER VIRUS	2	8	0	3	0	5	0	1	19
1306 HERPES SIMPLEX TYPE 1	21	41	0	29	1	5	0	14	111
1307 HERPES SIMPLEX TYPE 2	24	71	0	37	0	17	0	10	159
1399 HERPES VIRUS TYPING PENDING	0	0	0	0	3	0	0	0	3
1401 COXIELLA BURNETII	2	0	0	4	0	1	0	0	7
1402 OTHER RICKETTSIAE	2	0	0	0	0	0	0	0	2
1502 PICORNIA VIRUS - NOT TYPED = E	0	1	0	0	0	2	0	8	11
1521 MEASLES VIRUS	13	1	0	6	5	0	0	0	25
1522 RUBELLA VIRUS	0	0	0	3	0	0	0	0	3
1532 HEPATITIS B ANTIGEN	11	20	0	15	0	42	0	13	101
1533 HEPATITIS B ANTIBODY	0	1	0	0	0	0	0	0	1
1535 HEPATITIS A ANTIBODY	0	7	0	8	0	1	0	4	20
1536 HEPATITIS C VIRUS	0	5	0	0	0	0	0	0	5
1541 CHLAMYDIA A - C. TRACHOMATIS	0	43	1	21	0	19	0	50	134
1556 CMV - CYTOMEGALOVIRUS	19	2	2	8	4	1	2	5	43
1562 REOVIRUS (ALL TYPES)	0	0	0	0	0	2	0	0	2
1564 ROTAVIRUS	0	0	3	6	0	1	1	0	11
1566 NORWALK AGENT	0	0	0	0	0	0	2	0	2
1599 ENTEROVIRUS TYPING PENDING	0	0	0	0	2	0	3	0	5
9992 ROSS RIVER VIRUS	13	1	0	15	0	0	0	0	29
9993 ASTROVIRUS	0	0	0	0	0	1	0	0	1
9994 SMALL VIRUS (LIKE) PARTICLE	0	0	0	0	0	2	1	0	3
TOTAL	136	220	23	265	47	175	19	109	994

## AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

## VIRAL IDENTIFICATIONS FROM CONTRIBUTING LABORATORIES BY STATE OF CONTRIBUTING LABORATORY

PERIOD 16/01/91 TO 29/01/91

NSW: ICPMR; PHH/POW; RACH; ST GEORGE HOSP, KOGARAH; ROYAL NEWCASTLE HOSP.

VIC: FAIRFIELD; RCH; MDU, UNI MELB.

QLD: STATE LAB, BRIS; TOOWOOMBA PATH LAB; ROYAL BRIS HOSP; DR TB LYNCH, PATHOLOGIST, ROCKHAMPTON.

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	TOTAL
AAAA HIV	0	0	0	3	0	3
0100 ADENOVIRUS NOT TYPED	9	2	3	8	2	24
0101 ADENOVIRUS TYPE 1	3	0	0	0	1	4
0102 ADENOVIRUS TYPE 2	0	2	0	0	0	2
0103 ADENOVIRUS TYPE 3	2	0	0	0	3	5
0104 ADENOVIRUS TYPE 4	0	1	0	0	0	1
0105 ADENOVIRUS TYPE 5	1	0	0	0	1	2
0107 ADENOVIRUS TYPE 7	0	1	0	0	0	1
0108 ADENOVIRUS TYPE 8	2	1	0	0	0	3
0109 ADENOVIRUS TYPE 9	0	0	0	0	1	1
0111 ADENOVIRUS TYPE 11	5	0	0	0	0	5
0135 ADENOVIRUS TYPE 35	0	1	0	0	0	1
0199 ADENOVIRUS TYPING PENDING	0	3	0	0	0	3
0201 INFLUENZA A VIRUS	1	0	0	1	3	5
0203 INFLUENZA B VIRUS	1	1	0	0	4	6
0301 PARAINFLUENZA VIRUS TYPE 1	1	0	0	3	0	4
0302 PARAINFLUENZA VIRUS TYPE 2	0	0	0	1	8	9
0303 PARAINFLUENZA VIRUS TYPE 3	7	12	0	2	25	46
0399 PARAINFLUENZA VIRUS TYPING PEN	0	1	0	1	0	2
0400 RESPIRATORY SYNCYTIAL VIRUS (R	1	0	0	4	3	8
0500 RHINOVIRUS (ALL TYPES)	1	7	1	0	0	9
0600 MYCOPLASMA PNEUMONIAE	4	13	0	1	8	26
0700 ORNITHOSIS-PSITTACOSIS	0	4	0	0	0	4
0809 COXSACKIEVIRUS A9	5	0	0	0	0	5
0902 COXSACKIEVIRUS B2	4	1	0	1	0	6
0904 COXSACKIEVIRUS B4	0	2	0	0	0	2
0905 COXSACKIEVIRUS B5	0	1	0	0	3	4
1005 ECHOVIRUS TYPE 5	0	0	0	0	1	1
1011 ECHOVIRUS TYPE 11	1	0	0	0	0	1
1015 ECHOVIRUS TYPE 15	0	0	0	0	1	1
1022 ECHOVIRUS TYPE 22	2	0	0	0	0	2
1024 ECHOVIRUS TYPE 24	0	0	0	0	1	1
1101 POLIOVIRUS TYPE 1	2	2	0	0	3	7
1103 POLIOVIRUS TYPE 3	0	0	0	0	2	2
1200 MUMPS VIRUS	0	1	0	0	1	2
1301 HERPES SIMPLEX VIRUS - NOT TYP	24	0	0	4	2	30
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	10	5	0	7	37	59
1303 VARICELLA-ZOSTER VIRUS	5	2	1	8	3	19
1306 HERPES SIMPLEX TYPE 1	5	22	14	41	29	111
1307 HERPES SIMPLEX TYPE 2	17	24	10	71	37	159
1399 HERPES VIRUS TYPING PENDING	0	3	0	0	0	3
1401 COXIELLA BURNETII	1	2	0	0	4	7
1402 OTHER RICKETTSIAE	0	2	0	0	0	2
1502 PICORNIA VIRUS - NOT TYPED = E	2	0	8	1	0	11
1521 MEASLES VIRUS	0	18	0	1	6	25
1522 RUBELLA VIRUS	0	0	0	0	3	3
1532 HEPATITIS B ANTIGEN	42	11	13	20	15	101
1533 HEPATITIS B ANTIBODY	0	0	0	1	0	1
1535 HEPATITIS A ANTIBODY	1	0	4	7	8	20
1536 HEPATITIS C VIRUS	0	0	0	5	0	5
1541 CHLAMYDIA A - C. TRACHOMATIS	19	0	50	44	21	134
1556 CMV - CYTOMEGALOVIRUS	3	23	5	4	8	43
1562 REOVIRUS (ALL TYPES)	2	0	0	0	0	2
1564 ROTAVIRUS	2	0	0	3	6	11
1566 NORWALK AGENT	2	0	0	0	0	2
1599 ENTEROVIRUS TYPING PENDING	3	2	0	0	0	5
9992 ROSS RIVER VIRUS	0	13	0	1	15	29
9993 ASTROVIRUS	1	0	0	0	0	1
9994 SMALL VIRUS (LIKE) PARTICLE	3	0	0	0	0	3
TOTAL	194	183	109	243	265	994

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 16/01/91 TO 29/01/91

- 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	9	10	11	TOTAL
AAAA HIV	2	0	0	0	0	0	0	0	0	0	2
0100 ADENOVIRUS NOT TYPED	0	8	0	0	0	13	0	0	0	1	22
0101 ADENOVIRUS TYPE 1	0	2	0	0	0	1	0	0	0	0	3
0102 ADENOVIRUS TYPE 2	0	1	0	0	0	0	0	0	0	0	1
0103 ADENOVIRUS TYPE 3	0	3	0	0	0	1	1	0	0	0	5
0105 ADENOVIRUS TYPE 5	1	0	0	0	0	0	0	0	0	0	1
0109 ADENOVIRUS TYPE 9	0	0	0	0	0	1	0	0	0	0	1
0111 ADENOVIRUS TYPE 11	0	0	0	0	0	1	0	0	0	0	1
0135 ADENOVIRUS TYPE 35	0	0	0	0	0	1	0	0	0	0	1
0199 ADENOVIRUS TYPING PENDING	0	1	0	0	0	1	0	0	0	0	2
0201 INFLUENZA A VIRUS	0	4	0	0	0	0	0	1	0	0	5
0203 INFLUENZA B VIRUS	0	5	0	0	0	0	0	0	0	0	5
0301 PARAINFLUENZA VIRUS TYPE 1	0	4	0	0	0	0	0	0	0	0	4
0302 PARAINFLUENZA VIRUS TYPE 2	0	9	0	0	0	0	0	0	0	0	9
0303 PARAINFLUENZA VIRUS TYPE 3	4	37	0	0	0	0	0	0	0	0	41
0399 PARAINFLUENZA VIRUS TYPING PEN	0	2	0	0	0	0	0	0	0	0	2
0400 RESPIRATORY SYNCYTIAL VIRUS (R	1	7	0	0	0	0	0	0	0	0	8
0500 RHINOVIRUS (ALL TYPES)	1	6	0	0	0	0	0	0	0	0	7
0600 MYCOPLASMA PNEUMONIAE	2	18	0	0	0	0	0	0	0	0	20
0700 ORNITHOSIS-PSITTACOSIS	1	3	0	0	0	0	0	0	0	0	4
0809 COXSACKIEVIRUS A9	1	0	0	1	0	1	0	0	0	0	3
0902 COXSACKIEVIRUS B2	1	0	0	2	0	3	0	0	0	0	6
0904 COXSACKIEVIRUS B4	0	0	0	1	0	0	0	0	0	0	1
0905 COXSACKIEVIRUS B5	0	2	0	0	0	0	0	0	0	0	2
1011 ECHOVIRUS TYPE 11	1	0	0	0	0	0	0	0	0	0	1
1015 ECHOVIRUS TYPE 15	0	0	0	0	0	1	0	0	0	0	1
1024 ECHOVIRUS TYPE 24	0	1	0	0	0	0	0	0	0	0	1
1101 POLIOVIRUS TYPE 1	0	3	0	0	0	1	0	0	0	0	4
1103 POLIOVIRUS TYPE 3	0	0	0	0	0	1	0	0	0	0	1
1200 MUMPS VIRUS	0	1	0	0	0	0	0	0	0	0	1
1301 HERPES SIMPLEX VIRUS - NOT TYP	4	3	0	0	0	0	0	0	0	16	23
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	8	2	1	0	0	0	1	0	0	0	12
1303 VARICELLA-ZOSTER VIRUS	0	0	0	0	0	0	1	0	0	17	18
1306 HERPES SIMPLEX TYPE 1	0	2	0	0	0	0	0	1	1	78	82
1307 HERPES SIMPLEX TYPE 2	1	1	0	0	0	0	0	0	0	85	87
1399 HERPES VIRUS TYPING PENDING	0	0	0	0	0	0	0	0	0	2	2
1401 COXIELLA BURNETII	2	0	0	0	0	0	0	0	0	0	2
1502 PICORNIA VIRUS - NOT TYPED = E	2	2	0	0	2	3	0	0	0	1	10
1521 MEASLES VIRUS	8	0	0	0	0	0	0	0	0	16	24
1522 RUBELLA VIRUS	1	0	0	0	0	0	0	0	0	0	1
1532 HEPATITIS B ANTIGEN	64	0	0	0	0	0	31	0	0	0	95
1533 HEPATITIS B ANTIBODY	0	0	0	0	0	0	1	0	0	0	1
1535 HEPATITIS A ANTIBODY	5	0	0	0	0	0	12	0	0	0	17
1536 HEPATITIS C VIRUS	5	0	0	0	0	0	0	0	0	0	5
1541 CHLAMYDIA A - C. TRACHOMATIS	5	0	0	0	0	0	0	0	0	0	5
1556 CMV - CYTOMEGALOVIRUS	4	6	0	0	2	1	2	0	2	0	17
1562 REOVIRUS (ALL TYPES)	0	0	0	0	0	1	0	0	0	0	1
1564 ROTAVIRUS	0	0	0	0	0	11	0	0	0	0	11
1566 NORWALK AGENT	0	1	0	0	0	0	0	0	0	0	1
1599 ENTEROVIRUS TYPING PENDING	1	1	1	0	0	0	0	0	0	0	3
9992 ROSS RIVER VIRUS	6	0	0	0	0	0	0	0	0	8	14
9993 ASTROVIRUS	0	0	0	0	0	1	0	0	0	0	1
9994 SMALL VIRUS (LIKE) PARTICLE	0	0	0	0	0	3	0	0	0	0	3
TOTAL	131	135	2	4	4	46	49	2	3	224	600

## AUSTRALIA - COMMUNICABLE DISEASES INTELLIGENCE

## VIRAL IDENTIFICATIONS BY CLINICAL INFORMATION TABLE 2

PERIOD 16/01/91 TO 29/01/91

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	18	19	20	21	TOTAL
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AAAA HIV	0	0	0	0	0	0	1	0	0	1
0100 ADENOVIRUS NOT TYPED	1	0	0	0	0	0	1	0	0	2
0101 ADENOVIRUS TYPE 1	0	0	0	0	0	0	0	1	0	1
0102 ADENOVIRUS TYPE 2	0	0	0	0	0	0	0	1	0	1
0104 ADENOVIRUS TYPE 4	0	0	0	0	0	0	0	1	0	1
0105 ADENOVIRUS TYPE 5	1	0	0	0	0	0	0	0	0	1
0107 ADENOVIRUS TYPE 7	1	0	0	0	0	0	0	0	0	1
0108 ADENOVIRUS TYPE 8	3	0	0	0	0	0	0	0	0	3
0111 ADENOVIRUS TYPE 11	1	0	0	0	0	0	0	3	0	4
0199 ADENOVIRUS TYPING PENDING	0	0	0	0	0	0	1	0	0	1
0203 INFLUENZA B VIRUS	0	0	0	0	0	1	0	0	0	1
0303 PARAINFLUENZA VIRUS TYPE 3	0	0	0	0	0	0	4	1	0	5
0500 RHINOVIRUS (ALL TYPES)	0	0	0	0	0	1	1	0	0	2
0600 MYCOPLASMA PNEUMONIAE	0	0	0	0	2	1	0	3	0	6
0809 COXSACKIEVIRUS A9	0	0	0	0	0	0	0	2	0	2
0904 COXSACKIEVIRUS B4	0	0	0	0	0	0	1	0	0	1
0905 COXSACKIEVIRUS B5	0	0	0	0	0	1	0	0	0	1
1005 ECHOVIRUS TYPE 5	0	0	0	0	0	1	0	0	0	1
1022 ECHOVIRUS TYPE 22	0	0	0	0	0	0	0	2	0	2
1101 POLIOVIRUS TYPE 1	0	0	0	0	0	1	0	1	1	3
1103 POLIOVIRUS TYPE 3	0	0	0	0	0	0	0	1	0	1
1200 MUMPS VIRUS	0	0	1	0	0	0	0	0	0	1
1301 HERPES SIMPLEX VIRUS - NOT TYP	0	5	0	0	0	0	0	2	0	7
1302 EPSTEIN-BARR VIRUS (EB VIRUS)	0	0	32	5	0	1	3	6	0	47
1303 VARICELLA-ZOSTER VIRUS	0	0	0	0	0	0	0	1	0	1
1306 HERPES SIMPLEX TYPE 1	2	25	0	0	0	0	1	1	0	29
1307 HERPES SIMPLEX TYPE 2	0	69	0	0	0	0	1	2	0	72
1399 HERPES VIRUS TYPING PENDING	0	0	0	0	0	0	1	0	0	1
1401 COXIELLA BURNETII	0	0	0	0	0	1	4	0	0	5
1402 OTHER RICKETTSIAE	0	0	0	0	0	1	1	0	0	2
1502 PICORNIA VIRUS - NOT TYPED = E	0	0	0	0	0	0	0	1	0	1
1521 MEASLES VIRUS	0	0	0	0	0	0	1	0	0	1
1522 RUBELLA VIRUS	0	0	0	0	0	0	0	2	0	2
1532 HEPATITIS B ANTIGEN	0	0	0	0	0	0	0	6	0	6
1535 HEPATITIS A ANTIBODY	0	0	0	0	0	0	0	3	0	3
1541 CHLAMYDIA A - C. TRACHOMATIS	9	119	0	0	0	0	0	1	0	129
1556 CMV - CYTOMEGALOVIRUS	1	0	2	0	0	1	4	17	1	26
1562 REOVIRUS (ALL TYPES)	0	0	0	0	0	0	0	1	0	1
1566 NORWALK AGENT	0	0	0	0	0	0	0	1	0	1
1599 ENTEROVIRUS TYPING PENDING	0	0	0	0	0	0	2	0	0	2
9992 ROSS RIVER VIRUS	0	0	0	0	10	0	2	3	0	15
TOTAL	19	218	35	5	12	10	29	63	2	393