Additional reports

Australian childhood immunisation coverage

Tables 1, 2 and 3 provide the latest quarterly report on childhood immunisation coverage from the Australian Childhood Immunisation Register (ACIR).

The data show the percentage of children 'fully immunised' at 12 months, 24 months and 5 years of age, for 3-month birth cohorts of children at the stated ages between 1 April and 30 June 2010. 'Fully immunised' refers to vaccines on the National Immunisation Program Schedule, but excludes rotavirus, pneumococcal conjugate, varicella, or meningococcal C conjugate vaccines, and is outlined in more detail below.

'Fully immunised' at 12 months of age is defined as a child having a record on the ACIR of 3 doses of a diphtheria (D), tetanus (T) and pertussis-containing (P) vaccine, 3 doses of polio vaccine, 2 or 3 doses of PRP-OMP containing Haemophilus influenzae type b (Hib) vaccine or 3 doses of any other Hib vaccine, and 2 or 3 doses of Comvax hepatitis B vaccine or 3 doses of all other hepatitis B vaccines. 'Fully immunised' at 24 months of age is defined as a child having a record on the ACIR of 3 or 4 doses of a DTP-containing vaccine, 3 doses of polio vaccine, 3 or 4 doses of PRP-OMP containing Hib vaccine or 4 doses of any other Hib vaccine, 3 or 4 doses of Comvax hepatitis B vaccine or 4 doses of all other hepatitis B vaccines, and 1 dose of a measles, mumps and rubella-containing (MMR) vaccine. 'Fully immunised' at 5 years of age is defined as a child having a record on the ACIR of 4 or 5 doses of a DTP-containing vaccine, 4 doses of polio vaccine, and 2 doses of an MMR-containing vaccine.

A full description of the basic methodology used can be found in Commun Dis Intell 1998;22:36–37.

The National Centre for Immunisation Research and Surveillance of Vaccine Preventable Diseases (NCIRS) provides commentary on the trends in ACIR data. For further information please contact NCIRS at: telephone +61 2 9845 1435, E-mail: brynleyh@chw.edu.au

The percentage of children 'fully immunised' at 12 months of age for Australia increased slightly by 0.2 percentage points to 91.7% (Table 1). There were no important changes in coverage for any individual vaccines due at 12 months of age or by jurisdiction.

The percentage of children 'fully immunised' at 24 months of age for Australia increased by 0.3 percentage points to 92.7 (Table 2). There were no important changes in coverage for any individual vaccines due at 24 months of age or by jurisdiction.

The percentage of children 'fully immunised' at 5 years of age for Australia decreased slightly by 0.5 percentage points, to sit currently at 89.1% (Table 3). There were no important changes in coverage for any individual vaccines due at 5 years of age or by jurisdiction.

The Figure shows the trends in vaccination coverage from the first ACIR-derived published coverage estimates in 1997 to the current estimates. There is a clear trend of increasing vaccination coverage over time for children aged 12 months, 24 months and 6 years (till December 2007). This trend continued when the age of coverage calculation was changed from 6 years to 5 years in March 2008, and then increased further in the previous quarter as outlined in the previous report.

Table 1. Percentage of children immunised at 1 year of age, preliminary results by disease and state or territory for the birth cohort 1 April to 30 June 2009; assessment date 30 September 2010

Vaccine				State or	territory				Aust
	АСТ	NSW	NT	Qld	SA	Tas	Vic	WA	
Total number of children	1,233	24,054	1,031	15,792	4,862	1,622	17,551	7,825	73,970
Diphtheria, tetanus, pertussis (%)	94.7	91.8	91.0	92.3	92.2	92.9	92.8	90.7	92.1
Poliomyelitis (%)	94.7	91.7	90.9	92.3	92.1	92.9	92.8	90.6	92.1
Haemophilus influenzae type b (%)	94.6	91.6	91.8	92.3	92.0	92.8	92.6	90.5	92.0
Hepatitis B (%)	94.2	91.5	90.7	92.1	91.7	92.8	92.3	90.3	91.8
Fully immunised (%)	94.2	91.4	90.5	92.1	91.6	92.7	92.2	90.3	91.7
Change in fully immunised since last quarter (%)	+2.0	+0.1	+0.2	+0.2	+0.3	+1.1	+0.1	+0.2	+0.2

Table 2. Percentage of children immunised at 2 years of age, preliminary results by disease and state or territory for the birth cohort 1 April to 30 June 2008; assessment date 30 September 2010*

Vaccine	accine State or territory										
	АСТ	NSW	NT	Qld	SA	Tas	Vic	WA			
Total number of children	1,160	23,847	944	15,723	4,813	1,589	17,323	7,840	73,239		
Diphtheria, tetanus, pertussis (%)	97.2	95.0	96.7	94.8	94.6	95.0	95.7	94.2	95.1		
Poliomyelitis (%)	97.1	94.9	96.6	94.8	94.6	95.0	95.6	94.2	95.0		
Haemophilus influenzae type b (%)	96.8	95.1	92.7	94.8	94.6	95.1	95.4	93.5	94.9		
Measles, mumps, rubella (%)	96.3	93.7	96.3	94.2	93.7	94.7	94.6	93.2	94.1		
Hepatitis B (%)	96.1	94.5	96.5	94.3	94.2	95.0	95.1	93.5	94.6		
Fully immunised (%)	94.9	92.4	92.0	92.8	92.4	93.8	93.4	90.3	92.6		
Change in fully immunised since last quarter (%)	+1.1	-0.0	-1.5	+0.6	-0.0	+1.0	+0.3	-0.2	+0.2		

* The 12 months age data for this cohort were published in Commun Dis Intell 2009;33(4):444.

Table 3. Percentage of children immunised at 5 years of age, preliminary results by disease and state or territory for the birth cohort 1 April to 30 June 2005; assessment date 30 September 2010

Vaccine		State or territory A												
	АСТ	NSW	NT	Qld	SA	Tas	Vic	WA						
Total number of children	1,103	23,476	950	15,489	4,663	1,571	17,003	7,426	71,681					
Diphtheria, tetanus, pertussis (%)	91.1	89.5	86.3	90.6	87.2	93.2	90.9	86.1	89.6					
Poliomyelitis (%)	91.2	89.5	86.3	90.5	87.2	93.1	90.9	86.0	89.6					
Measles, mumps, rubella (%)	91.1	89.3	85.8	90.6	87.1	93.3	90.7	86.0	89.5					
Fully immunised (%)	90.7	89.0	85.4	90.0	86.7	92.7	90.4	85.3	89.1					
Change in fully immunised since last quarter (%)	+1.7	-0.5	-2.0	-0.2	-0.4	+2.1	-0.7	-1.3	-0.5					

Figure: Trends in vaccination coverage, Australia, 1997 to 30 April 2010, by age cohorts



Australian Sentinel Practices Research Network

The Australian Sentinel Practices Research Network (ASPREN) is a national surveillance system that is funded by the Commonwealth's Department of Health and Ageing, owned and operated by the Royal Australian College of General Practitioners and directed through the Discipline of General Practice at the University of Adelaide.

The network consists of general practitioners who report presentations on a number of defined medical conditions each week. ASPREN was established in 1991 to provide a rapid monitoring scheme for infectious diseases that can alert public health officials of epidemics in their early stages as well as play a role in the evaluation of public health campaigns and research of conditions commonly seen in general practice. Electronic, web-based data collection was established in 2006.

In June 2010, ASPREN's laboratory ILI testing was implemented, allowing for viral testing of 25% of ILI

patients for a range of respiratory viruses including influenza A, influenza B and H1N1(2009).

The list of conditions is reviewed annually by the ASPREN management committee. In 2010, 4 conditions are being monitored. They include influenza-like illness (ILI), gastroenteritis and varicella infections (chickenpox and shingles). Definitions of these conditions are described in Surveillance systems reported in CDI, published in Commun Dis Intell 2010;34(1):83–84.

Reporting period 1 July to 30 September 2010

Sentinel practices contributing to ASPREN were located in all 8 jurisdictions in Australia. A total of 120 general practitioners contributed data to ASPREN in the 3rd quarter of 2010. Each week an average of 101 general practitioners provided information to ASPREN at an average of 9,821 (range 9,194–10,857) consultations per week and an average of 208 (range 149–292) notifications per week.

ILI rates reported from 1 July to 30 September 2010 averaged 14 cases per 1,000 consultations (range 9–19 cases per 1,000 consultations). The reported rates in July and August 2010 (10–11 cases per 1,000 consultations and 9–18 cases per 1,000 consultations, respectively) were significantly lower compared with rates in the same reporting period in 2009 (22–44 cases per 1,000 consultations and 21–45 cases per 1,000 consultations, respectively). ILI rates reported in September 2010 (15–19 cases per 1,000 consultations) were slightly higher than rates recorded in September 2009 (6–18 cases per 1,000 consultations) (Figure 1).

ILI swab testing commenced at the beginning of June 2010. The most commonly reported virus during this reporting period was influenza A H1N1(2009) (21% of all swabs performed), with rhinovirus the 2nd most commonly reported (9% of all swabs performed) (Figure 2). For the whole of

Figure 1: Consultation rates for influenzalike illness, ASPREN, 1 January 2009 to 30 September 2010, by week of report



Figure 2: Influenza-like illness swab testing results, ASPREN, 1 June 2010 to 30 September 2010, by week of report



2010 to the end of week 39, 248 cases of influenza have been detected, the majority of these being H1N1(2009) (72% of all swabs performed) and the remainder were influenza B (19% of all swabs performed) and influenza A untyped or other (9% of all swabs performed).

During this reporting period, consultation rates for gastroenteritis averaged 5.7 cases per 1,000 consultations (range 5–8 cases per 1,000, Figure 3). This was slightly higher compared with the same reporting period in 2009 where the average was 5.1 cases per 1,000 consultations (range 4–9 cases per 1,000).

Figure 3: Consultation rates for gastroenteritis, ASPREN, 1 January 2009 to 30 September 2010, by week of report



Varicella infections were reported at a slightly higher rate for the 3rd quarter of 2010 compared with the same period in 2009. From 1 July to 30 September 2010, recorded rates for chickenpox averaged 0.4 cases per 1,000 consultations (range 0.1–0.7 cases per 1,000 consultations, Figure 4).

Figure 4: Consultation rates for chickenpox, ASPREN, 1 January 2009 to 30 September 2010, by week of report



In the 3rd quarter of 2010, reported rates for shingles averaged 0.8 cases per 1,000 consultations (range 0.3–1.2 cases per 1,000 consultations, Figure 5), which was higher than the same reporting period in 2009 where the average shingles rate was 0.6 cases per 1,000 consultations (0.2–0.9 cases per 1,000 consultations).

Figure 5: Consultation rates for shingles, ASPREN, 1 January 2009 to 30 September 2010, by week of report



Gonococcal surveillance

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The Australian Gonococcal Surveillance Programme (AGSP) reference laboratories in the various states and territories report data on sensitivity to an agreed 'core' group of antimicrobial agents quarterly. The antibiotics currently routinely surveyed are penicillin, ceftriaxone, ciprofloxacin and spectinomycin, all of which are administered as single dose regimens and currently used in Australia to treat gonorrhoea. When in vitro resistance to a recommended agent is demonstrated in 5 per cent or more of isolates from a general population, it is usual to remove that agent from the list of recommended treatment.¹ Additional data are also provided on other antibiotics from time to time. At present all laboratories also test isolates for the presence of high level (plasmidmediated) resistance to the tetracyclines, known as TRNG. Tetracyclines are however, not a recommended therapy for gonorrhoea in Australia. Comparability of data is achieved by means of a standardised system of testing and a program-specific quality assurance process. Because of the substantial geographic differences in susceptibility patterns in Australia, regional as well as aggregated data are presented. For more information *see* Commun Dis Intell *2010;34(1):82–83*.

Reporting period 1 April to 30 June 2010

The AGSP laboratories received a total of 1,027 isolates in the 2nd guarter of 2010, which was an increase from the 796 isolates seen in the corresponding period in 2009. Of these, 1,011 remained viable for susceptibility testing. Of the total, 328 (32%) were from New South Wales, 232 (23%) from Victoria, 224 (22%) from Queensland, 93 (9%) from the Northern Territory, 87 (8.5%) from Western Australia and 52 (5%) from South Australia. There were 11 isolates from the Australian Capital Territory and no isolates from Tasmania. The number of isolates examined in this quarter in New South Wales, Queensland, South Australia and the Australian Capital Territory was increased, the number from Victoria was similar, and there was a decline in numbers examined in Western Australia and the Northern Territory.

Penicillins

In the 2nd quarter of 2010, 307 (30%) of all isolates examined were penicillin resistant by one or more mechanisms, which was proportionally similar to the 34% reported in the same quarter in 2009. One hundred and ninety-two (19%) were resistant by chromosomal mechanisms, (CMRP) and 115 (11%) were penicillinase-producing *Neisseria gonorrhoeae* (PPNG). When compared with the same quarter in 2009, the proportion of CMRP (14%) and PPNG (20%) were also similar.

The proportion of all strains resistant to the penicillins by any mechanism ranged widely across all jurisdictions: Northern Territory 2.3%; Queensland 20%; Western Australia 25%; New South Wales 33%; South Australia 36% and Victoria 48%. There were 11 isolates from the Australian Capital Territory for this quarter and four were penicillin resistant. Of note, there was a decline in the proportion of penicillin resistance in New South Wales from the same quarter in 2009, from 49% to 33% in 2010. This decline was due to a reduction in CMRP from 30% to 18%.

Figure 1 shows the proportion of gonococci fully sensitive (MIC ≤ 0.03 mg/L), less sensitive (MIC 0.06-0.5 mg/L), CMRP (MIC ≥ 1 mg/L) or else PPNG aggregated for Australia and by state and territory. A high proportion of strains classified as PPNG or CMRP fail to respond to treatment with penicillins (penicillin, amoxycillin, ampicillin) and early generation cephalosporins.

Penicillin resistance due to CMRP predominated in isolates from Victoria (CMRP 36%: PPNG 12%), South Australia (CMRP 29%: PPNG 7%), New South Wales (CMRP 18%: PPNG 15%) and Western Australia (CMRP 14%: PPNG 11%). However,

PPNG were more prominent in Queensland (PPNG 11%: CMRP 9%). There was 1 CMRP and 1 PPNG detected in the Northern Territory, and in the Australian Capital Territory there were 2 CMRP and 2 PPNG.

Figure 1: Categorisation of gonococci isolated in Australia, 1 April to 30 June 2010, by penicillin susceptibility and state or territory



PPNG Penicillinase producing Neisseria gonorrhoeae.

Ceftriaxone

Existing criteria: Decreased susceptibility to ceftriaxone (MIC range 0.06–0.12mg/L)

Fifty-five isolates (5.4%) with decreased susceptibility to ceftriaxone (MIC range 0.06–0.12 mg/L) were detected nationally, which was a marked increase when compared with the same quarter in 2009 or the low numbers reported in previous years. There were 22 (6.7%) isolates in New South Wales, 12 (5.2%) in Victoria, 10 (22%) in South Australia, 9 (4%) in Queensland and one each from Western Australia, and the Australian Capital Territory.

This increase in gonococci showing decreased susceptibility to ceftriaxone was reported initially by the AGSP in the 1st quarter of 2010 when there were 62 isolates (6%) with MICs in the range 0.06–0.12 mg/L. This proportion remains similar nationally for the 2nd quarter of 2010.

New criteria: Decreased Susceptibility to ceftriaxone (MIC range 0.03–0.12 mg/L)

Whilst decreased susceptibility to ceftriaxone is yet to be associated with treatment failure in genital infection, it is both increasing and of increasing concern globally. To better monitor this, the criteria for detecting gonococci with decreased susceptibility to ceftriaxone has been adjusted to include MIC \geq 0.03mg/L.²

In this quarter, data for ceftriaxone MIC $\geq 0.03 \text{ mg/L}$ were contributed from four jurisdictions (New South Wales; Queensland; Victoria and Western Australia) with 866 isolates examined. Using the new criteria (MIC range 0.03–0.12 mg/L), 164 isolates (19% of 866 gonococci) were detected. There were 72 (22%) in New South Wales, 48 (21%) in Victoria, 33 (15%) in Queensland and 11 (13%) in Western Australia.

From the 1st quarter of 2011 AGSP reports will report gonococci with a ceftriaxone MIC range 0.03–0.12mg/L as having decreased susceptibility.

Spectinomycin

All isolates were susceptible to this injectable agent.

Quinolone antibiotics

Quinolone resistant *N. gonorrhoeae* (QRNG) are defined as those isolates with an MIC to cipro-floxacin equal to or greater than 0.06 mg/L. QRNG are further subdivided into less sensitive (cipro-floxacin MICs 0.06–0.5 mg/L) or resistant (MIC ≥ 1 mg/L) groups.

There were a total of 380 (QRNG) in this quarter for 2010, representing 38% of all gonococci tested nationally. The proportion of QRNG was reduced when compared with the corresponding quarter in 2009: 44%, and 2008: 59%.

The majority of QRNG in the current period exhibit higher-level resistance (ciprofloxacin MICs ≥ 1 mg/L). QRNG were detected in all states and territories with the highest proportions in South Australia: 21 QRNG (47% of all isolates); Victoria: 105 QRNG (45% of all isolates); New South Wales 138 QRNG (42% of all isolates) (Figure 2). In Western Australia there were 30 QRNG (36%), and in Queensland there were 75 QRNG (34%). There were 8 QRNG isolates from the Australian Capital Territory, and three from the Northern Territory.

Figure 2: The distribution of quinolone resistant isolates of *Neisseria gonorrhoeae* in Australia, 1 April to 30 June 2010, by state or territory



High level tetracycline resistance

There were 218 (22%) high level tetracycline resistance (TRNG) detected nationally, which was proportionally unchanged from this same quarter in 2009 (165 TRNG: 21%). The highest proportions of TRNG in any jurisdiction were reported from the Northern Territory (37 TRNG: 42%), and the Australian Capital Territory (4 TRNG: 37%). The number and proportion in the other jurisdictions were New South Wales (83 TRNG: 25%); Western Australia (TRNG 18: 21%); Victoria (TRNG 36: 16%); South Australia (TRNG 7: 16%) and Queensland (TRNG 33: 15%)

Reference

- Management of sexually transmitted diseases. World Health Organization 1997; Document WHO/GPA/ TEM94.1 Rev.1 p 37.
- University of New South Wales. The CDS Antibiotic Susceptibility Test. Available from: http://web.med.unsw. edu.au/cdstest/

HIV and AIDS surveillance

National surveillance for HIV disease is coordinated by the National Centre in HIV Epidemiology and Clinical Research (NCHECR), in collaboration with State and Territory health authorities and the Commonwealth of Australia. Cases of HIV infection are notified to the National HIV Registry on the first occasion of diagnosis in Australia, by either the diagnosing laboratory (Australian Capital Territory, New South Wales, Tasmania, Victoria) or by a combination of laboratory and doctor sources (Northern Territory, Queensland, South Australia, Western Australia). Cases of AIDS are notified through the State and Territory health authorities to the National AIDS Registry. Diagnoses of both HIV infection and AIDS are notified with the person's date of birth and name code, to minimise duplicate notifications while maintaining confidentiality.

Tabulations of diagnoses of HIV infection and AIDS are based on data available three months after the end of the reporting interval indicated, to allow for reporting delay and to incorporate newly available information. More detailed information on diagnoses of HIV infection and AIDS is published in the quarterly Australian HIV Surveillance Report, and annually in 'HIV/ AIDS, viral hepatitis and sexually transmissible infections in Australia, annual surveillance report'. The reports are available from the National Centre in HIV Epidemiology and Clinical Research, CFI Building, Cnr Boundary and West Streets, Darlinghurst NSW 2010. Internet: www.nchecr.unsw.edu.au Telephone: +61 2 9385 0900. Facsimile: +61 2 9385 0920. For more information see Commun Dis Intell 2010;34(1):84.

HIV and AIDS diagnoses and deaths following AIDS reported for 1 October to 31 December 2009, are included in this issue of Communicable Diseases Intelligence (Tables 1 and 2).

Table 1: New diagnoses of HIV infection, new diagnoses of AIDS and deaths following AIDS occurring in the period 1 October to 31 December 2009, by sex and state or territory of diagnosis

				Sta	te or t	errito	ry			Т	otals for Austi	alia	-
	Sex	АСТ	NSW	ΝΤ	Qld	SA	Tas	Vic	WA	This period 2009	This period 2008	YTD 2009	YTD 2008
HIV	Female	0	11	0	2	5	1	6	6	31	28	139	137
diagnoses	Male	1	83	2	47	10	0	67	11	221	208	909	864
	Not reported	0	0	0	0	0	0	0	0	0	0	0	0
	Total*	1	94	2	49	15	1	73	17	252	236	1,050	1,001
AIDS	Female	0		0	1	0	0	2	1	4	3	13	9
diagnoses [†]	Male	0		0	2	4	0	6	1	13	23	77	95
	Total*	0		0	3	4	0	8	2	17	26	90	104
AIDS	Female	0		0	0	0	0	0	0	0	0	2	1
deaths [†]	Male	0		0	0	0	0	1	0	1	10	7	25
	Total*	0		0	0	0	0	1	0	1	10	9	26

* Totals include people whose sex was reported as transgender.

† AIDS cases and deaths following AIDS occurring in New South Wales from January 2008 are not included.

Table 2: Number of new diagnoses of HIV infection since the introduction of HIV antibody testing 1985, and number of new diagnoses of AIDS and deaths following AIDS since 1981, cumulative to 31 December 2009, by sex and state or territory

			State or territory											
	Sex	АСТ	NSW	NT	Qld	SA	Tas	Vic	WA					
HIV diagnoses	Female	36	1,010	30	355	125	17	465	263	2,301				
	Male	283	14,480	158	3,251	1,066	127	6,012	1,396	26,773				
	Not reported	0	228	0	0	0	0	22	0	250				
	Total*	319	15,750	188	3,615	1,192	144	6,521	1,666	29,395				
AIDS diagnoses [†]	Female	10	265	6	77	32	4	126	48	568				
	Male	95	5,513	48	1,096	426	55	2,151	458	9,842				
	Total*	105	5,796	54	1,175	459	59	2,290	508	10,446				
AIDS deaths [†]	Female	7	138	1	43	20	2	66	30	307				
	Male	73	3,597	33	679	280	34	1,449	301	6,446				
	Total*	80	3,746	34	724	300	36	1,524	332	6,776				

* Totals include people whose sex was reported as transgender.

† AIDS cases and deaths following AIDS occurring in New South Wales from January 2008 are not included.

Meningococcal surveillance

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The reference laboratories of the Australian Meningococcal Surveillance Programme report data on the number of cases confirmed by laboratory testing using culture and by non-culture based techniques. Culture positive cases, where Neisseria meningitidis is grown from a normally sterile site or skin lesions, and non-culture based diagnoses, derived from results of nucleic acid amplification assays (NAA) and serological techniques, are defined as invasive meningococcal disease (IMD) according to Public Health Laboratory Network definitions. Data contained in quarterly reports are restricted to a description of the numbers of cases by jurisdiction and serogroup, where known. Some minor corrections to data in the Table may be made in subsequent reports if additional data are received. A full analysis of laboratory confirmed cases of IMD in each calendar year is contained in the annual reports of the Programme is published in Communicable Diseases Intelligence. For more information see Commun Dis Intell 2010;34:83.

Laboratory confirmed cases of invasive meningococcal disease for the period 1 April to 30 June 2010 and 1 July to 30 September 2010, are included in this issue of Communicable Diseases Intelligence (Tables 1 and 2).

Table 1: Number of laborate	ory confirmed ca	ises of invasive n	neningococcal	disease, A	ustralia,
1 April to 30 June 2010, by se	erogroup and sta	te or territory	0		

State or Year Serogroup															
territory			Α		В	(C		Y	W	135	N	ID	ļ	All
		Q2	YTD												
Australian	10			1	1	0	0	0	0	0	0	0	0	1	1
Capital Territory	09			3	3	0	0	0	0	0	0	0	0	3	3
New South	10			8	21	2	2	0	0	1	2	1	2	12	27
Wales	09			13	25	1	4	1	1	1	2	3	3	19	35
Northern	10			0	0	0	0	0	0	0	0	0	0	0	0
Territory	09			1	3	0	1	0	0	0	0	0	0	1	4
Queensland	10			17	23	1	1	0	0	1	1	0	0	19	25
	09			6	17	0	0	0	0	0	0	0	0	6	17
South Australia	10			6	10	0	0	0	1	0	0	0	0	6	11
	09			7	11	0	0	1	1	0	0	0	0	8	12
Tasmania	10			0	1	0	0	0	0	0	0	0	1	0	2
	09			1	1	0	0	0	0	0	0	0	0	1	1
Victoria	10			7	10	0	0	1	2	2	3	0	0	10	15
	09			5	10	0	1	0	0	0	0	0	2	5	13
Western	10			2	5	0	1	1	1	0	0	0	0	3	7
Australia	09			8	10	0	2	0	0	0	0	0	0	8	12
Total	10			41	71	3	4	2	4	4	6	1	3	51	88
	09			44	80	1	8	2	2	1	2	3	5	51	97

State or	Year	Serogroup													
territory			Α		3	(2		Y	W	135	N	D	A	AII
		Q3	YTD	Q3	YTD	Q3	YTD	Q3	YTD	Q3	YTD	Q3	YTD	Q3	YTD
Australian	10			1	2	0	0	0	0	0	0	0	0	1	2
Capital Territory	09			0	3	0	0	0	0	0	0	0	0	0	3
New South	10			14	35	2	4	2	2	0	2	2	4	20	47
Wales	09			24	49	3	7	2	3	2	4	0	3	31	66
Northern	10			0	0	0	0	0	0	0	0	0	0	0	0
Territory	09			0	3	0	1							0	4
Queensland	10			31	48	4	5	0	0	1	2	0	0	36	55
	09			19	36	0	0	1	1	0	0	2	2	22	39
South Australia	10			6	16	0	0	0	1	0	0	0	0	6	17
	09			4	15	0	0	1	2	0	0	0	0	5	17
Tasmania	10			0	1	0	0	0	0	0	0	0	1	0	2
	09			0	1	0	0	0	0	0	0	0	0	0	1
Victoria	10			12	32	0	0	0	2	0	3	0	0	12	37
	09			13	23	0	1					1	3	14	27
Western	10			8	13	0	1	0	1	1	1	0	0	9	16
Australia	09			6	16	0	2	1	1	0	0	0	0	7	19
Total	10			73	147	6	10	2	6	3	8	2	5	86	176
	09			66	146	3	11	5	7	2	4	3	8	79	176

Table 2: Number of laboratory confirmed cases of invasive meningococcal disease, Australia,1 July to 30 September 2010, by serogroup and state or territory