Communicable Diseases Report, NSW, September and October 2008

Communicable Diseases Branch, NSW Department of Health

For updated information, including data and facts on specific diseases, visit http://www.health. nsw.gov.au and click on Infectious Diseases or access the site directly at: http://www.health.nsw. gov.au/publichealth/infectious/index.asp.

Figure 1 and Tables 1 and 2 show reports of communicable diseases received through to the end of October 2008 in New South Wales (NSW).

Mumps

Six cases of mumps were notified in September and a further two cases were notified in October, bringing the total number of cases to 82 in NSW this year. This is a significant reduction from 2007, where more than 300 cases were notified. However, as infection often occurs with minimal symptoms, the true number of cases is likely to be higher than reported in all years.

Mumps is a vaccine-preventable disease spread by droplet infection and direct contact with the saliva of people with the infection. Maximum infectiousness occurs from 2 days before to 4 days after onset of illness.

Symptoms include fever, loss of appetite, tiredness and headaches followed by swelling and tenderness of the salivary glands. One or both of the parotid salivary glands (in front of and below the ears) are often affected.

Mumps is usually a more severe illness in people infected after puberty. Complications are uncommon but can include encephalitis, meningitis, hearing loss, orchitis in post-pubertal boys and men, and ovarian inflammation in women.

To help prevent the spread, exclusion of people with mumps from work, school, child care and other settings is currently recommended for up to 9 days from the onset of swelling or until fully recovered, whichever is sooner. Immunisation against mumps takes place with the measles, mumps, rubella (MMR) vaccine, which is given routinely at 12 months and 4 years of age.

Hepatitis D

One case of hepatitis D was notified in September, and a further case was notified in October, bringing the total number of cases to 11 in NSW this year. This is close to the average for recent years.

Hepatitis D is a rare infection that occurs only in people who already have hepatitis B virus (HBV) infection. Its importance lies particularly in the fact that co-infection with both viruses means greater risk of severe liver disease, including severe acute hepatitis, which can progress to chronic disease.

The modes of transmission for hepatitis D are similar to that for hepatitis B: exposure to infected blood and serous body fluids, contaminated needles, syringes or blood- and plasma-product transfusions. Sexual transmission may also occur but is less common than with HBV infection. Perinatal infection is rare. Infection may occur at the same time as a new HBV infection (co-infection) or when a person already infected with HBV develops chronic infection (super-infection).1

There is no vaccine for hepatitis D, however, vaccination against hepatitis B prevents hepatitis D virus infection.

Shigella

An increase was detected in the number of shigellosis cases notified in NSW in September and October. Twelve men, mostly residents of inner Sydney, were notified with Shigella sonnei biotype g infection. A similar increase in Sh. sonnei biotype g was also recently detected in Victoria. These cases shared an unusual antibiotic-resistance pattern, which suggested that all of the cases were epidemiologically related.

Nine of the NSW cases were interviewed using a semi-structured, hypothesis-generating questionnaire. Interviewed cases reported illness lasting typically 6 to 7 days. Three cases required intravenous rehydration and antibiotics were prescribed for seven cases. No cases reported travel either overseas or outside of NSW in the 7 days prior to onset. There were no common food exposures. One case reported contact with another ill person. None of the cases identified recent contact with someone with shigellosis.

All interviewed cases were men who have sex with men. Seven cases reported having sex in the 3 days prior to onset with one to five partners. Two cases attended sex on premises venues. Three cases attended private sex parties and two reported sexual activity at home. Six cases reported oral and anal sex, and four cases reported oroanal sex.

All isolates were resistant to antibiotic treatment with streptomycin, sulphonamide, tetracycline, trimethoprim and naladixic acid, and had a reduced susceptibility to ciprofloxacin. This was the same resistance pattern as the Victorian isolates.

Alerts were published in Sydney's gay newspapers, advising people to avoid infection and seek treatment if they become sick. Alerts were faxed to general practitioners in metropolitan Sydney with advice to request stool specimens and test for shigellosis in men who have sex with men who present with diarrhoea.

No epidemiological links were identified between cases. Knowledge of shigellosis, and the transmission of Shigella, was poor and few men identified that some sexual practices could be a risk factor for infection. Further work is recommended with this community to raise awareness of bacterial pathogens and prevention strategies.

All shigellosis infections should be treated for public health reasons as only a small inoculum is required for the infection to be transmitted to another person. Current Australian therapeutic guidelines recommend first-line treatment with norfloxacin, trimethoprim or ampicillin. As ampicillin is no longer available as an oral preparation in Australia, amoxycillin was identified as a suitable alternative for the purposes of treating cases related to this outbreak.

Shigellosis can be prevented by maintaining good general hygiene, including washing hands thoroughly after going to the toilet, after having sex and before eating. People with new onset diarrhoea should avoid having sex while they are unwell and should not prepare food for others.

Reference

1. CD Section, Public Health Group, Victorian Department of Human Services. The Blue Book – Guidelines for the control of infectious diseases. Melbourne: State of Victoria; 2005. Available from: http://www.health.vic.gov.au/ideas/bluebook (Cited 10 November 2008).

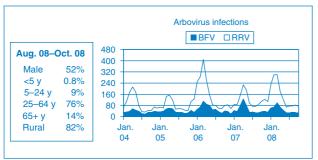
Figure 1. Reports of selected communicable diseases, NSW, January 2004 to October 2008, by month of onset.

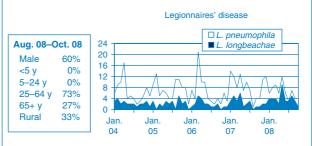
Preliminary data: case counts in recent months may increase because of reporting delays. Laboratory-confirmed cases only, except for measles, meningococcal disease and pertussis. BFV, Barmah Forest virus infection; RRV, Ross River virus infection; lab conf, laboratory confirmed; Men Gp C and Gp B, meningococcal disease due to serogroup C and serogroup B infection; other/unk, other or unknown serogroups.

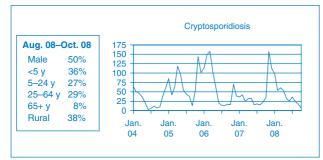
NB: Multiple series in graphs are stacked, except gastroenteritis outbreaks.

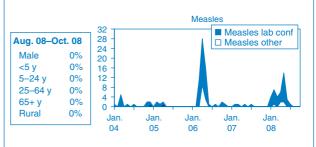
NB: Outbreaks are more likely to be reported by nursing homes and hospitals than by other institutions.

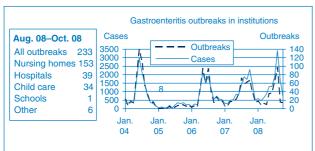


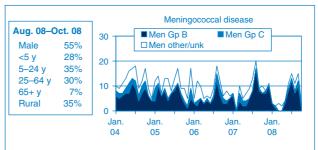


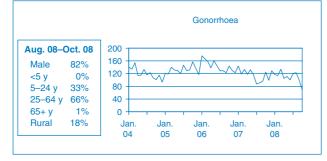


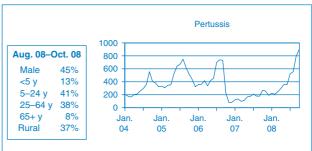


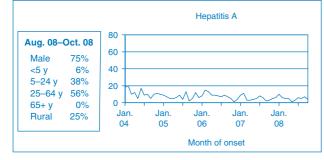












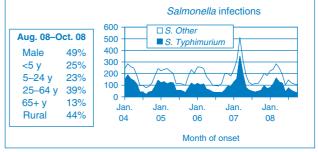


Table 1. Reports of notifiable conditions received in September 2008 by area health services

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Condition	Greater Southern GMA SA	ıthern SA	Great FWA	Greater Western	IWA	New England HUN NEA		North Coast Central Coast MNC NRA CCA NSA	ast C	Central Cos	SA Sy	Sydney Illawarra ILL SES		West CSA SWS	Sydney West WEN WSA	West WSA	JHS	For Sep ^c	Year to date
Bloodborne and sexually transmitted	nitted																		
Chlamvdia (genital) ^a	42	36	- 4	- 02	22	119	45	45		51		55 147	102	- 46	34	106	ıπ	1026	10679
Gonorrhoeaa	! !	-	: 1	m	-	. ∞	· –		7		. 4	- 35	6	9	m	10	1	85	1027
Hepatitis B – acute viral ^a	4	1.5	10	10	ı	∘	۱ ر	10		10		1 2/		۱۲	10	٦ -	10	4 [29
Hepatitis C – acute viral ^a	וח	t i	n 7	ו ח		5 I	۱ ۷					۲ ۱	- 1	7 1	ו ח	25	n 1	2 4	15
Hepatitis C – other ^a	21	11	9	3	8	44	8					17 36	1	-	21	35	22	368	4112
Hepatitis D – unspecified ^a	ı	ı	ı	ı	ı	ı	ı	ı	ı				ı	-	ı	ı	ı	_	10
Syphilis	1 1	ı m	ı ∞	5	ı -	۱ 4	1 1	7	۱۳	1 7	1 2	2 33	32	21	ı ∞	12	1 1	140	871
Vectorborne																			
Barmah Forest virus ^a	- ∘	_	ı	۱ <	ı	~ º			10		ı		l -	ı	- ر	l -	ı	78	462
Arboviral infection (other) ^a	0 1	ı -	1 1	1 1	1 1	0 І	, 1	o —	= '	1 1	ıπ	- 1	- 1	1 1	7	- 2	1 1	21	111
Malaria	1	- 1	ı	1	ı	ı	1		1		2		2	1	ı	1	1	2	6
Zoonoses																			
Anthrax ^a Britollogica	1	ı	ı	ı	ı	ı	1 =	1	ı			1 1	1	I	ı	ı	ı	1 =	۱۳
Leptospirosis ^a	1 1	1 1	1 1	1 1	1 1	1 1	- 1	1 1					1 1	1 1	1 1	1 1	1 1	- 1	. <u>7</u>
Lyssavirus	1	1	1	1	1	1	1	1	1				1	1	1	1	1	1	1
Psittacosis ^a O fever ^a	3.2	I 	ım	7	1 1	ı -	ım	1 1	1 6	ı -	1 1		1 1	1 1	2 -	1 1	1 1	9 8	36
Recoiratory and other)	-	,	-		-	,		,									2	j
Blood lead level	1	1	1	10	3	2	1		1				-	3	-	1	1	20	199
Influenza	16	20	- -	9	 1	57	29	28	62			30 31	12	19	10	103	7	443	1314
Invasive pneumococcal infection ^a		4	m	ı	2	۲,	ı	ı	m			2 9	7	9	m	6	ı	و2	415
Legionella pneumophila infection ^a	1 1	1 1	1 1	1 1	1 1	- 1	1 1	ı -	1 1	1 1	1 1		1 1	1 1	1 1	1 1	1 1	7 -	28 28
Legionnaires' disease (other)a		ī	ı	ı	í	í	ı		1				1	ı	ı	í	1	ı	- (
Leprosy		I -	ı	l -	ı	1 =	ı	ı	1 (ı	10	ır	۱۲	ı	1 6	m y
Tuberculosis	رو) ۱ –	- 1	1 1	- 1	1 1	- 2	1 1		7			1 7	1 1	n 0	3 6	3 8	1 1	24	327
Vaccine-preventable																			
Adverse event after immunisation	٤ د	1	-	1	8	3	ı			2	1		1	5	1	2	1	26	229
H.influenzae b infection (invasive) ^a		1 1	1 1	1 1	1 1	1 1	1 1	1 1		1 1			1 1	- 1	1 1	1 1	1 1	- 1	ο °
Mumpsa	1 1			ı -	1 1	1 1							1 1	1 1	1 1	1 1	1 1	۰ 0	8
Pertussis	16	12	1	13	20	36	9						52	62	44	183	1	737	3318
Kubella ⁴ Tetaniis	1 1	1 1	1 1	1 1	1 1	1 1	1 1		1 1	1 1	1 1	1 1	- 1	1 1	1 1	1 1	1 1	- 1	= -
Exterio																			-
Botulism	1	ı	1	1	1	1	1	1	1				1	1	1	1	1	1	1
Cholera	ı	ı	ı	ı	1 +	1 +	ı	ı	1			1 .	1	1 •	1 +	1 (ı	1 5	1 0
Cryptosporidiosis. Giardiasis ^a	۱۳			ı -	- ~	- 1	۱ ۳						ی ا	- α	- σ	7 7		171	1463
Haemolytic uraemic syndrome	n I	s 1	ı	- 1	4 1	1	ום	1	1) I	o i	· -	<u>1</u>	- 1	-	2
Hepatitis Aa	1	1	1	1	1	1	1	1	1			2 1	7	1	1	1	1	80	48
Hepatitis E ^a	ı	1 0	ı	i	ı	ı	1	i	1				1	i	ı	2	ı	7 (٥ د
Listeriosis* Salmonellosis ^a	ıπ	νm	ı -	ım	1 1	- 4	۱ 4	10	۱ 6	7		7 8	1 1/2	16	1 1		1 1	7 66	1714
Shigellosis ^a	1	1	1	ı	1	1	1	1	_				-	2	ı	ı	1	6	63
Typhoid ^a	ı	_	ı	ı	ı	ı	ı	ı	ı				ı	ı	ı	-	ı	7	78
Verotoxin-producing E. Coll®	1	-	-		1	ı							1	1	1	ı	ı	ı	2
Miscellaneous Creutzfeldt– Jakob disease	ı	ı	ı	ı	ı	ı	ı	ı	ı				ı	ı	ı	ı	1	ı	2
Meningococcal conjunctivitis	ı	ı	1	1	ı	ı	1	1	1		1	1	1	ı	ı	ı	1	1	ı —
^a Laboratory-confirmed cases only. ^b HIV and AIDS data are reported separately in the Public Health B	and AIDS data	are reported	1 separately	in the Public		etin quarter	y. cIncludes	ulletin quarterly. Includes cases with unknown postcode	ıknown post	code.									
NB: Data are current and accurate as at	the preparation	date. The n	number of α	ases reported		; subject to c	hange, as ca	ses may be e	entered at a l.	ater date or I	retracted up	rer, subject to change, as cases may be entered at a later date or retracted upon further investigation. Historical Area Health Service configurations are included for continuity.	stigation. Histo	orical Area He	alth Service o	configuratio	ns are inclu	ded for contir	uity/
NB: From 1 January 2005, Hunter New E	Ingland AHS als	o comprises	5 Great Lake	s, Gloucester	and Greate	r Taree LGAs (LGA,	(LGA, Local o	Gover	Area), Sydney	y West also c	comprises Greater	reater Lithgow LGA							
GMA, Greater Murray Area MAC, Macquarie Area NEA, New England Area CCA, Cent NSA. Northern Sydney Area CSA. Central Sydney Area WSA. Western Sydney Area FWA. Far N	acquarie Area	NEA, P	Vestern Svd	d Area	CCA, Centra FWA. Far We	I Coast Area	SES, Sout HUN, Hur	th East	tern Sydney Area rea	WEN, Wenty NRA, North	worth Area ern Rivers Area		SA, Southern Area LL. Illawarra Area	MWA, Mid Western Area SWS. South Western Sydney Area	stern Area		NC, North C	MNC, North Coast Area. JHS. Justice Health Service.	
אינרט משות לשוושלה ווושווי וסאו לאכעו	IIII di ayaning min	יעכאא פיי	Western Jye	االع ماده	רעית, ומו ייינ	אובם	ווסוא, וומ	וובו עובם		ווייוסאו ,רייואו	בובויות ווום			WAY, JOURNAY	Stern Sydine		ושיווכמריכן	במונוו סבו אורבי	

Table 2. Reports of notifiable conditions received in October 2008 by area health services

	Greater Southern	ıthern	Great	Greater Western	_	Hunter New England		Area Health Service (2008 North Coast Cent	h Service (N	Northern Sydney Central Coast		South Eastern Sydney Illawarra		ley S		Sydney West		For	Total Year	ar
Condition	GMA	SA	FWA	MAC	MWA	HON		MNC		CA		ILL S		CSA SWS		EN WS	SA JHS			late
Bloodborne and sexually transmitted	ted																			
Chancroid	1 6	1 6	۱ (۱ ;	1 9	1 5	1 6	1 7	۱ (1 5	1 7	,		-			10			1 5
Chiamydia (genital)*	67	00	<u>c</u>	<u>n</u> 1	ו ע	1,24	95	4,7	76	\$ <	4 4		35	129 120		ύ <u>ζ</u>		105		4 7
Honatitic B - acute virala	- 1		-			<u>.</u>		ו ה		+ 1	0			<u>,</u> -				2		1 7
Hepatitis B – acute VII al	· 	7	- m	· -	1 1	- 7		7	4	m	12	6	29	25 4	42	3.	7 5	182	2487	, k
Hepatitis C – acute viral ^a	ı	ı	1	ı	ı	ı	1	ı	1	1	1					_				19
Hepatitis C – other ^a	15	Ξ	Ξ	=	9	49	14	=	27	32	7	32	37	16 1	19 1		38	386	42	07
Hepatitis U = unspecified* vmphographiloma vapereiim	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1		1 1		1 1							= '
Syphilis	1	1	7	-	1	-	1	1	7	2	9	2	28	25 1	12	1 11	-	107		942
Vectorborne																				
Barmah Forest virus	7.	7	1 (1 (1 (^ ;	7	10	ο,	2		1.	1 .		1.					689
Koss Kiver Virus ^a Arboviral infection (other) ^a	4	7	7	ו ת	ν	<u>4</u> ℃	χo Ι	= '	0	1	۱ ر	- 1	_	۱ ر	- (_ '	- ~	4 C		125
Malaria	1	ì	1	1	1	1 1	1	1	1	1	4 1	1	_		4 1	,				97
Zoonoses																				
Anthraxa	1	1	1	1	1	1	1	1	1	1	1	1	1	1						1
Brucellosis ^a	1	ı	1	1	ì	1	1	1	1	1	1	1	1	1						e
Leptospirosis ^a	1	1	1	1	1	1	1	1	1	1	1	1	1							15
Lyssavirus	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı							1
Psittacosis ^a O fever ^a	ı -	ı -	ı -	1 1	1 1	۱ —	۱ 4	ı -	Ιm	1 1	1 1	ı -	1 1	1 1	- 1		1 1			37
Doeniratory and other	-	-	-			-	-	-	5			-								2
Blood lead level	2	-	_	-	e	2	1	1	7	1	1		_					15		15
Influenzaa	23	16	5	7	2	32	13	2	50 20	7	8	1	22	13 2	21 1	17 26	9	248		97
Invasive pneumococcal infection ^a	7	3	1	1	-	7	ı	1	7	2	4		8			1	9			89
Legionella longbeachae infection ^a	ı	í	ı	ı	_	—	í	-	ı	-	ı	ı	ı		1 (۱ -			39
Legionella pheumophila Intection ^a	1 1	1 1	1 1		1 1			1 1	1 1				1 1		7		- 1			<u>~</u> -
Legionnianes disease (oniei)												1 1								- m
Meningococcal infection (invasive) ^a	1	1	1	1	-	1	1	1	1	1	1	1	_	1	_	2 .	1	. 2		69
Tuberculosis	ı	,	,	-	1	1	,	,	-	-	2	-	2							73
Vaccine-preventable		,				,		,		,	,									
Adverse event after immunisation H influenzae h infection (invasive)a	1 1	- 1	1 1	1 1	1 1	- 1	1 1	- 1	7 -	- 1	- 1						7 -			247
Measles	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1				39
Mumps	1 6	1 1	1 (1 6	1 6	1 L	1 0	1 6	1 1		1 1		- 6			1 1				82
Pertussis Rubella	73	54	71	73	73	ر د	∞ 1) 	ر ر	105	ر ا	103				ν I	4		1438
Tetanus	1	ı	ı	ı	1	ı	1	1	1		1		1 1	ı		,	1			-
Enteric																				
Botulism (Roless	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı						ı
Cryptosporidiosis ^a	1 1	1 1		1 1	1 1	7		1 1		ı m	5						. 7		4	46
Giardiasis	2	ı	ı	7	ı	13	_	2	_	7	14	9	30	7			5	110		88
Haemolytic uraemic syndrome	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	1 -	1 -	1 (1			2 2
Hepatitis A ^a Hepatitis F ^a	1 1	1 1	1 1	1 1		1 1		1 1		1 1		- 1								11
Listeriosis	1	1	1	1	1	1	1	1	1	1	1		- 1	1	1		-			30
Salmonellosis ^a	9	2	1	_	4	16	2	m	-	8	19	80	19	4	13	8		. 132		1855
Shigellosis ^a Timboida	ı	ı	ı	ı	-	ı	ı	ı	ı	-	-	ı	= '			1	' '			82
Iypnola" Verotoxin-producina <i>F. coli</i> ia	1 1	1 1	1 1	1 1	1 1	ı -	1 1	1 1	1 1		1 1		7 1		- 1		- 1			1 -
Miscellandus																				
Creutzfeldt–Jakob disease	1	1	1	1	1	1	ı	1	1	1	1	1	1							2
Meningococcal conjunctivitis	ı	ı	1	ı	ı	ı	1	1	ı	1	1	1	1	1	1		1		_	-
^a Laboratory-confirmed cases only. ^b HIV ar	d AIDS data	are reporte	d separately	in the Public	: Health Bull	etin quarter	ly. Includes	cases with u	inknown po	stcode.									-	
NB: Data are current and accurate as at th	e preparation	date. The	number of ca	ses reported	d is, howeve,	r, subject to	change, as c	ases may be	entered at	a later date o	r retracted u	subject to change, as cases may be entered at a later date or retracted upon further investigation. Historical Area Health Service configurations are included for continuity/	investigation	n.Historical A	rea Health	ervice confi	gurations are	included for	continuity/	
comparison purposes and to nignlight regional differences. NB: From 1 January 2005, Hunter New England AHS also comprises Great Lakes, Gloucester and Greater	gional differe iland AHS als	nces. o comprise	s Great Lake	s, Gloucester	r and Greate		(LGA, Local	Government	t Area), Sydr	ney West also	comprises (Greater Lithou	ow LGA.							
GMA, Greater Murray Area MAC, Maca	quarie Area	NEA	New England	Area	CCA, Centra		Coast Area SES, Sou	South Eastern Sydney Area WEN, Went	ydney Area	WEN, Wer	ntworth Are	tworth Area SA, Southern Area	outhern Are		1id Western	MWA, Mid Western Area		MNC, North Coast Area.	ga.	
NSA, NOrtnern Sydney Area CSA, Center	al sydfiey Air	ea wow,	Western ayu	ney Area	FWA, Fdf vvc	est Area	HOIN, III	HUN, Hunter Area		NKA, NOI	NKA, Northern Kivers Area	Area ILL, I.	llawaira Aic		utn wester	Sydney Are		Tice meaning	ivice.	