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NEW PUBLIC HEALTH BULLETIN FOR NSW

INTRODUCTION

he first of the new Public Health Bulletins signals a revival of the role of public health in the New South Wales health services. In recent years, the attention given to this role, and indeed to the training of a public health workforce, has lagged behind that given to the high profile public hospital system. With the creation of a Public Health Division, a strong Epidemiology Branch and Public Health Units in all Areas and Regions, the opportunity now exists to demonstrate the contribution that a strong public health service can make to the entire health system.

In keeping with national initiatives such as an increase in the number of universities offering training in Public Health, the creation of the Public Health Research and Development Committee of National Health and Medical Research Council, and the proposed Faculty of Public Health Medicine of the Royal Australasian College of Physicians, it is recognised that Public Health will only reach its potential if greater attention is given to the development of a well trained and informed workforce.

As responsibility for health programs devolves further to Regions and Areas, it is critical that attention is given to communication mechanisms which will ensure that information on major health issues is disseminated across the state. Accurate and timely information is needed to target programs appropriately, to monitor trends in mortality, morbidity and the provision of health services, and to facilitate evaluation of programs and health practices.

This monthly Bulletin will be of variable length, depending on the availability of suitable material. It will include tabulations of notified infectious diseases; information on public health policy, programs, and evaluations; analyses of existing datasets, results of special investigations; news from Public Health Units (see article p.2); letters to the editor; and information on resources available.

It will be distributed to Areas and Regions, hospitals, interested medical practitioners, major laboratories, universities, professional colleges and other state health departments. It is hoped that this bulletin will assist the development of a vibrant public health network in NSW.

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MPROVED PUBLIC HEALT

a s in other Australian states, public health¹ and epidemiology² activities have recently returned to the health agenda in NSW. AIDS and the environment have been major stimuli. An enhanced professional infrastructure has been developing since 1988 through which to address disease prevention and control, and health promotion.

In December 1988 the NSW Department of Health created the Epidemiology and Health Services Evaluation Branch (Epidemiology Branch) to upgrade the surveillance of the health status of the NSW population and to conduct epidemiologic studies evaluating the efficacy and effectiveness of health services. In 1989 infectious disease, non-infectious disease, reproductive health and statistical services sections were nominated. Infectious disease reporting and response systems were put in place. Branch staff investigated infectious disease outbreaks, studied the health effects of swimming at Sydney beaches, monitored the safety of pregnancy and childbirth, developed a birth defects data base and motivated the formation of the NSW Advisory Committee on Infectious Diseases. To date, this committee, which meets monthly to consider policy issues and relevant research, has recommended a revised list of notifiable diseases and reporting procedures.

In November 1989 reorganisation of the Central Office of the Department led to the formation of the Public Health Division. The Division has five main branches under the direction of the Chief Health Officer — Public Health and Statewide Health Services, Epidemiology, the Drug Offensive, AIDS and Mental Health.

In December 1989 the NSW Minister for Health approved \$4 million annual recurrent funding for a program to enhance the public health and epidemiology network in the State. The program will have three main components:

Establishing Public Health Units (PHUs) in Areas and Regions. Fourteen PHUs (two will each serve two Areas) are being developed according to the terms of reference in Table 1. The staff configuration will vary from Area/Region to Area/Region but all will have a Medical Officer of Health who is responsible — among other tasks — for infectious disease control and environmental health. The Units, which will link with the central Public Health Division, will concentrate initially on implementing a new infectious disease reporting and response system. This system will rely on information sent from medical practitioners but especially from laboratories to the PHUs. The Department will soon mount a campaign to inform health professionals of the new guidelines and procedures for notifying infectious diseases.

Training health professionals in public health practice. Six public health medicine registrars have been appointed to a three-year program rotating through training positions selected to provide challenging experiences in public health practice. Several Masters degree scholarships in public health will be offered to medical and non-medical trainees; short courses in epidemiology and public health practice will be developed and provided for interested health professionals; and, every two years, one person will be sent to the US Centers for Disease Control to participate in their Epidemic Intelligence Service.

Supporting public health policy investigations. Some funds (\$100,000) have been committed to support investigations conducted by the public health medicine trainees and other research relevant to agendas established by expert advisory panels on

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TABLE 1

TERMS OF REFERENCE FOR PUBLIC HEALTH UNITS IN NSW

- 1 All senior staff appointments should be on performance contracts.
- 2 Funds can only be spent on activities indicated in these terms of reference.
- Allocated funds must not be used for new building construction.
- The Chief or Deputy Chief Health Officer or Director of Epidemiology Branch must participate in the selection of all PHU Directors and/or Medical Officers of Health.
- 5 The Unit Director will:
 - Coordinate public health activity conducted by the Area/Region including public health programs, research and evaluation with health education and health promotion programs.
 - Evaluate local health priorities and develop a public health strategy including surveillance, epidemiology, evaluation, and prevention/control in the following areas:
 - Infectious diseases (including AIDS, HIV, STDs and developing local notification networks, investigating all reports of notifiable conditions according to protocol and reporting results to the Epidemiology Branch)
 - Environmental health
 - Environmental monitoring in accordance with Central Administration guidelines
 - Pregnancy outcomes
 - Birth defects
 - Intentional and non-intentional injuries
 - Chronic disease including cardiovascular disease and cancer
 - Risk factor prevalence (including drugs, alcohol, smoking)
 - Special health problems of minority groups
 Other areas specified by the Better Health Commission.
- Analyse local health-related databases including hospital morbidity and perinatal collections.
- Prepare and submit to the Chief Health Officer:
 - annual Unit reports
 - Unit objectives activities for the next year, and
 - · monthly activity reports.
- Provide on-the-job training for public health medicine trainees and
- Participate in regular statewide meetings of PHU staff to discuss progress and program development.

NFECTIOUS DISEAS E

NOTIFICATIONS, 1988-1990

ogether with the NSW Infectious Disease Advisory Committee, the Department of Health is reviewing the process of infectious disease reporting, surveillance and response. This process has six major objectives:

- First, to reduce the list of notifiable conditions. A revised draft of notifiable infectious diseases is currently being circulated for comment by relevant organisations.
- Second, to introduce laboratory-based notification. To increase the proportion of notifiable disease occurrences that are reported, the new system will incorporate reporting of specific microbiologic or serologic findings by laboratory staff. This reporting mechanism has been successfully pilot-tested in the Eastern Sydney Area Health Service (see article p.5).
- Third, to streamline reporting procedures and increase involvement of those who will be responsible for immediate control measures. Medical practitioners and pathology laboratory staff will be asked to forward notifications to the Medical Officer of Health (MOH) in the Public Health Unit (PHU) of their Area/Region. The MOH will be responsible for monitoring and responding to these reports and for forwarding the information to the Epidemiology Branch in the Department of Health for statewide collation.
- Fourth, to develop a computerised database that is readily accessible to all people requiring information on infectious diseases in New South Wales. Staff of the Epidemiology Branch are modifying software developed by the United States Centers for Disease Control (EPIINFO) for use by PHUs. It is anticipated that PHU staff will maintain a microcomputer database of infectious disease notifications and regularly transmit this via modem to the central Epidemiology Branch database. All PHUs will be able to access the central database. Information will then be transmitted from this central database to a national Communicable Disease Network database maintained by the Communicable Disease Section of the Commonwealth Department of Community Services and Health.
- Fifth, to develop uniform protocols for responding to infectious disease notifications. Protocols, which provide a step-by-step guide for action to be taken in response to a notification, have been drafted for review.
- And finally, to provide rapid feedback to those who provide the notification data and others who need to know.

 Notification data will be published monthly in the Public Health Bulletin which will be distributed to the public health community of NSW, pathology laboratories, and health departments in the Commonwealth, States and Territories. In addition, the infectious disease notification data will be published simultaneously in the "Medical Observer", a biweekly newspaper distributed to general practitioners throughout Australia.

While we expect that reporting of notifiable infectious diseases will dramatically improve over the next year, we report here the results of the current system (unrevised) for 1989 and the first two months of 1990. ►

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TABLE 2

INFECTIOUS DISEASE NOTIFICATIONS, NSW, 1988 AND 1989

Disease	1989	1988
AIDS ¹	265	289
Amoebiasis	6	8
Ancylostomiasis	_	_
Anthrax		
Arboviral inf. (NOS) ²	389	136
Brucellosis	505	1
Campylobacter inf.	1875	1875
Chancroid	1	,,,,,
Cholera	2	1
Congenital rubella synd.		
Diphtheria	2	1
Donovanosis	_	1
Encephalitis (NOS) ²		4
Food poisoning (NOS) ²	7	36
Genital herpes	876	947
Giardiasis	659	497
Gonococcal ophthalmia neo.	1	457
Gonorrhoea	603	746
Hepatitis A	63	89
Hepatitis B	465	388
Hepatitis unspecified	21	15
Hydatid disease	2	5
Infantile diarrhoea (NOS) ²	492	498
Legionnaires' disease	52	26
Leprosy	12	7
Leptospirosis	58	36
Lymphogranuloma venereum	50	30
Malaria	91	84
Measles	76	43
Meningococcal inf.	58	18
Non specific urethritis	1708	3124
Ornithosis	4	5124
Pertussis	202	25
	202	- 23
Plague Poliomyelitis		
Q Fever	138	232
Rabies	130	232
	1333	1048
Salmonella inf. (NOS)² Shigella inf.	94	99
Syphilis	315	337
Tetanus	313	33/
Trachoma	-	
Tuberculosis	452	406
	19	25
Typhoid & paratyphoid Typhus	19	25
	8	1
Vibrio parahaemolyticus inf.	0	1
Viral haemorrhagic fevers³ Yellow fever	_	
Yersinia inf.	116	124
		7,000
Total	10/61	11177

1. In 1989, 57 deaths from AIDS were reported. In 1988 there were 123. The cumulative total of AIDS cases reported to the NH & MRC National Centre for HIV Epidemiology and Clinical Research through 31 December, 1989 was 1069. 608 deaths from AIDS were reported to this time. HIV data will be available for the next issue of this Bulletin.

2. NOS - Not Otherwise Specified.

 Includes Crimean Congo Fever, Ebola Fever, Lassa Fever, Marburg disease.

Please note that the data in this bulletin are provisional and subject to change because of late reports or corrections in case classification. Data are tabulated, where possible, by area of residence and by the disease onset date and not simply the date of notification or receipt of such notification.

TABLE 3

INFECTIOUS DISEASE NOTIFICATIONS, NSW, WEEKS ENDING 24 February, 1990 AND 25 February, 1989

	Cum. 1990	Cum. 1989		Cum. 1990	Cum. 1989
AIDS	56	58	Leprosy	0	4
Amoebiasis	0	1	Leptospirosis	7	9
Ancylostomiasis	0	0	Lymphogranuloma venereum	0	0
Anthrax	0	0	Malaria	31	8
Arboviral inf. (NOS) ¹	1	0	Measles	4	4
Brucellosis	0	0	Meningococcal inf.	4	6
Campylobacter	313	372	Non specific urethritis	227	292
Chancroid	0	0	Ornithosis	0	0
Chlamydia inf. (NOS)1	28	0	Pertussis	60	10
Cholera	0	0	Plaque	0	0
Congenital rubella syn.	0	0	Poliomyelitis	0	0
Diphtheria	0	0	Q Fever	18	19 0
Donovanosis	0	0	Rabies	0	0
Encephalitis (NOS)1	0	0	Ross River fever	19	190
Food poisoning (NOS) ¹	1	1	Salmonella inf.	286	267
Genital herpes	108	127	Shigella inf.	31	12
Giardiasis	104	116	Syphilis	43	52
Gonococcal ophthalmia neo.	0	0	Tetanus	0	0
Gonorrhoea	65	122	Trachoma	0	0
Hepatitis A	4	9	Tuberculosis	68	92
Hepatitis B	44	70	Typhoid & Paratyphoid	6	4
Hepatitis unspec.		- 1	Typhus	0	0
HIV ²	N/A	N/A	Vibrios inf. (NOS) ¹	2	2
Hydatid disease	0	0	Viral haemorrhagic fevers	0	0
Infantile diarrhoea (NOS)1	10	54	Yellow fever	0	0
Legionnaires' disease	10	6	Yersinia inf.	20	18

1. NOS - Not Otherwise Specified.

2. HIV data will be available in the next issue of this Bulletin.
3. Includes Crimean Congo Fever, Ebola Fever, Lassa Fever, Marburg disease.

TABLE 4

INFECTIOUS DISEASE NOTIFICATIONS BY HEALTH AREA AND REGION, NSW, 31 December, 1989-24 February, 1990

DISEASES	CSA	NSA	SSA	ESA	W5A	WEN	SWS	HUN	CCA	ILL	NCR	NER (DFW	CWR	SWR	SER	VIC	QLD	SA	TAS	ACT	U/K	OS	TOTA
AIDS	_	_	-	-	-	-	-		-	+	1,01	-			-	-	-	4	-	-	-	56	-	5
Arbovirus (NOS) ¹	-	-	-	7.	-	-	-	-	-	-	1	-	-	-	-	-	-	-	=	-	4	-	-	
Campylobacter inf.	19	36	59	9	42	51	29	6	8	3	18	18	2	2	5	-	-	-	-	1	3	2	-	31
Chlamydia inf. (NOS)1	-	-	-	. 3	1	-	-	1		-	15	5	1	-	1	-	-	-	-	-	-	1	-	1 2
Food Poisoning (NOS)1	-	-	-	-	-	-	-		-		-	-	-	1	-	-	-	-	-	-	-	-	-	
Genital herpes	-	-	-	81	-	3	2	1	1	-	13	7	-	-	-	-	-	-	-	-	-	-	-	10
Giardiasis	1	5	14	5	5	9	5	5	3	-	45	2	2	2	-	-	-	1	-	-	1.2	-	-	10
Gonorrhoea	2	-	1	41	2	-	1	3	2	+	8	3	1	-	1	-	-	-	-	-	-	-	2	
Hepatitis A	-	1	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
Hepatitis B	1	-	-	8	2	-	9	3	-	-	7	4	7	2	1	-	-	-	-	-	-	-	-	
Hepatitis unspec.	-		-	-	4	-	-	-	=	-	-	1	_	1	-	-	_	-	-	-	-	-	- 2	
Infant diarr. (NOS)1	-	-	-	=	3	5	-	-	*	-	2	-	4	_	-	-	-	-	-	-	-	-	-	1 3
egionnaires' dis.	-	4	1	-	1	-	1	-	=	-	-	-	-	1	-	14	-	-	+	-	2	-	-	
Leptospirosis	-	-	1	-	1	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	2	-	
Malaria	2	11	-	4	2	-	-	2	1	1	1	-	1	3	1	_	-	-	2	-	-	1	1	1 3
Measles	-	1	-	-	-	-	1	-	1	-	-	=	4	-	1	-	-	4	_	-	4	0-1	-	
Meningococcal inf.	-	=	1	-	1	-	2	-	-	4	18	-	-	-	-		-	4	4	-	-	-	-	
Nonspecific urethritis	-	1	-	178	-	1	21	19	-	1	4	-	4	-	-	-	-	-	1	-	-	1	-	2
Pertussis	11	4	5	1	3	8	4	2	5	-	1	10	4	2	-	-	-	-	-	-	-	-	-	
Q Fever	-	_	-	2	-	-	_	1	-	-	4	8	1	1	-	-	-	1	-	-	-	-	-	1 6
Ross River fever	-	_	-	-	-	1	-	-	-	-	5	2	-	2	5		-	_	-	2	-	1	1	
Salmonella inf.	22	39	19	8	45	21	33	7	6	13	22	19	6	4	5	5	3	3	-	_	1	6	-	2
Shigella inf.	2	3	-	1	1	-	2	-	1	1	9	3	6	1	-	_	_	_	-	4	-	-	1	100
Syphilis	6	1	-	20	-	-	4	3 2	-	-	1	2	6	-	_	-	_	_	-	-	-	-	3-0	
Tuberculosis (all)	15	1	10	13	6	1	12	2	2	-	-	1	1	1	-	-	-	-	-	-	-	3	-	1
Typhoid & paratyphoid	-	1	-	2	-	_	-	1	_	1	1	-	-	-	_	-	-	_	-	_	-	-	-	
Vibrio inf. (NOS)1	-	-	1		-	1	-	-	_	_	-	-	_	-	_	-	-	-	-	-	-	-	-	
Yersinia inf.	3	6	-	-	1	-	3	-	-	-	4	1	1	-	=	3	-	-	-	-	1	-	-	3
Total	84	114	112	377	117	101	129	56	30	21	161	86	39	24	20	5	4	5	1	3	7	73	3	15

1. NOS - Not Otherwise Specified.

Abbreviation Health Area/Region: U/K Area of residence unknown, ACT Australian Capital Territory, CCA Central Coast, CSA Central Sydney Area, CWR Central Western Region, ESA Eastern Sydney Area, HUN Hunter Region, ILI Illawarra Region, NCR North Coast Region, NER New England Region, NSA Northern Sydney Area, OFW Orana and Far West Region, OS Overseas, QLD Queensland, SA South Australia, SSA Southern Sydney Area, SWR South West Region, SWS South Western Sydney, VIC Victoria, WEN Wentworth Area, WSA Western Sydney Area.

LABORATORY

Surveillance of Infectious Disease

n April, 1989 the Medical Officer of Health (MOH) of the Eastern Sydney Area Health Service (ESAHS) and members of the Epidemiology Branch (EB), Department of Health, NSW, agreed to test a system for collecting laboratory data on infectious diseases. As a result, the Laboratory Infectious Disease (ID) Surveillance Project was developed in the ESAHS. The following ESAHS public hospital laboratories were involved in the network for the pilot scheme: Prince of Wales, Prince Henry, Royal South Sydney, St Vincents and Sydney.

After successful completion of the pilot phase of the project the network approached private laboratories providing services in the eastern Sydney area. In September, 1989 the following private laboratories joined the network: Michael D Frack and CH Mansfield; PK Lamond, JH Baird and JF Finlayson; Macquarie Pathology Services; Hanly Moir Pathology; Stat Labs and Sugerman's Pathology. At the same time the microbiology laboratory at the Royal Alexandra Hospital for Children, Camperdown began participating in the project.

Each participating laboratory in this system completes an information sheet which includes: diagnosis, laboratory identification number, patient identifier, area of residence, sex and age of the patient. Each week laboratory staff transmit this information by facsimile to the MOH of the ESAHS who initiates appropriate public health action. The forms are then redirected by facsimile to the EB where the information is entered into a purpose-designed database (EPIINFO Version 3).

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TABLE 5

LABORATORY ID SURVEILLANCE PROJECT, NSW 1989 & 1990 NOTIFICATIONS BY FOUR WEEKLY REPORTING PERIODS

BACTERIAL/PROTOZOAN				1989						1990		
					REI	PORT	ING I	PERIOD)			
ORGANISM	01-06	07	08	09	10	11	12	13	01	02	03	Tota
Aeromonas hydrophila	2	0	0	0	0	2	2	9	3	8	3	29
Bordetella pertussis	28	7	17	14	20	31	52	32	28	28	8	265
Campylobacter spp	42	10	4	8	6	15	109	117	127	112	84	634
Cryptosporidium	0	0	0	1	3	4	0	5	3	9	2	27
Giardia lamblia	15	2	0	5	0	2	34	28	31	68	49	234
H. Influenzae (systemic)	3	2	2	1	1	0	3	4	0	3	4	2
Legionella spp	4	1	0	1	0	0	2	1	0	1	0	10
Malaria	0	0	0	0	0	0	0	0	1	4	0	13
Mycobacterium tuberculosis	11	13	6	4	4	0	4	2	1	0	0	4
Mycobacterium atypical	20	16	16	6	6	2	2	2	5	2	0	7
Mycoplasma pneumoniae	6	3	0	1	2	1	6	2	7	4	2	3
Neisseria meningitidis	0	0	2	0	1	2	1	0	0	1	0	- 3
Sal. typhi, paratyphi A&B	13	0	2	1	4	1	1	0	0	3	0	2
Salmonella spp	9	3	6	3	1	6	11	27	27	40	36	169
Shigella spp	6	0	0	0	1	3	5	0	4	3	3	2
Streptococcus group B	1	0	0	0	0	0	1	1	0	0	0	
Streptococcus pneumoniae	4	1	0	9	4	4	1	1	3	0	1	2
Streptococcus pyogenes	0	0	0	0	0	0	2	1	0	2	0	3
Yersinia enterocolitica	13	1	1	5	0	1	3	6	4	2	3	3
Total	177	59	56	59	50	74	239	238	244	290	195	168

VIRAL				1989	0				,	1990			
7.7		REPORTING PERIOD											
ORGANISM	01-06	07	08	09	10	11	12	13	01	02	03	Total	
Adenovirus	0	0	0	0	0	0	1	0	0 7	0	0	1	
Cytomegalovirus	0	0	1	0	0	5	10	4		12	3	42	
Enteroviruses (non-Polio)	39	13	13	7	6	6	8	0	3	3	1	99	
Epstein-Barr virus	0	0	0	0	2	4	26	9	12	17	11	81	
Hepatitis A	2	1	0	0	0	0	5	8	2	4	2	24	
Hepatitis B (acute)	0	0	0	0	0	3	4	0	2	0	1	10	
Hepatitis B (unspec/carrier)	54	18	11	15	13	15	123	72	91	79	76	567	
Influenza type A	0	0	0	6	7	3	6	3	0	0	3	28	
Influenza type B	3	0	0	6	9	2	0	0	0	0	0	20	
Parainfluenza	1	1	1	2	2	5	2	1	0	0	0	15	
Respiratory syncytial virus	23	23	14	9	5	2	2	0	0	0	5	83	
Rhinovirus	0	0	0	0	0	0	2	0	1	0	0		
Rotavirus	5	7	18	35	48	49	30	9	10	6	9	226	
Rubella	0	0	0	0	0	0	51	26	8	12	7	104	
Varicella	0	0	0	0	1	0	6	2	2	8	3	22	
Total	127	63	58	80	93	94	276	134	138	141	121	132	

STD	1			1989		OPT	ING P	ERIOD		1990		
ORGANISM	01-06	07	08	09	10	11	12	13	01	02	03	Total
Chlamydia trachomatis	59	31	12	13	24	25	68	38	70	109	63	512
Neisseria gonorrhoeae	17	11	9	8	10	26	30	31	29	44	30	245
Treponema pallidum	3	2	0	0	0	6	16	3	8	2	11	51
Total	79	44	21	21	34	57	114	72	107	155	104	808

LOW FREQUENCY				1989		ODT	NG D	ERIOD		990		
ORGANISM	01-06	07	08	09	10	.11		13	01	02	03	Total
Arboviruses (NOS)1	0	0	0	0	0	0	0	0	1	0	0	1
Brucella abortus	3	0	1	0	0	0	2	0	0	0	0	6
Clostridium difficile	0	0	0	0	0	0	0	0	0	0	1	1
Chlamydia psittaci	0	0	1	0	0	0	0	0	0	0	2	- 3
Cryptococcus neoformans	1	2	0	2	2	2	2	2	0	0	0	13
Echinococcus	2	0	0	0	0	0	0	0	0	0	0	2
Entamoeba histolytica	0	0	0	0	0	0	0	0	4	0	0	4
Enterovirus polio	0	0	0	0	0	0	0	2	0	2	1	5
Leptospira spp	1	0	0	0	0	0	0	0	0	1	0	7
Listeria monocytogenes	0	0	0	0	0	0	1	0	0	0	0	1
Pneumocystis carinii	0	0	0	0	0	2	0	3	0	0	0	
Ross River virus	6	0	0	0	0	4	1	0	0	1	0	12
Toxoplasma	0	0	0	0	0	0	0	0	0	3	1	4
Total	13	2	2	2	2	8	6	7	5	7	5	59

^{1.} NOS — Not Otherwise Specified.

Laboratory Surveillance of Infectious Disease

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These data are analysed and a report, consisting of the accumulated data and a brief commentary, is forwarded by facsimile to the participating laboratories within two working days. The enclosed tables show the data collected during 1989 and 1990 by monthly reporting period. The scheme has been maintained by the enthusiastic support and interest of all the participants. The feedback of up to date information has been found to be of considerable benefit to the laboratories, particularly in assisting them to fulfil their consultative role to the primary care practitioners.

The Laboratory ID Surveillance Project also has been successful in promptly identifying outbreaks of infectious diseases. Interventions which have resulted from the Project include education campaigns in eastern Sydney to reduce spread of respiratory syncytial virus and rotavirus, rubella and whooping cough. When it became clear that the outbreaks of rubella and whooping cough were early indicators of more widespread epidemics, the education campaigns were extended statewide through the central office of the Department of Health.

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Improved Public Health

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infectious and non-infectious disease, reproductive health and injury. Examples include examining horizontal transmission of hepatitis B and investigating risk factors for invasive haemophilus influenza B infection.

It is planned to appoint an experienced epidemiologist to give a personal touch to communications throughout the developing public health and epidemiology network. As well, there will be regular meetings of PHU and Central Office staff.

Future challenges in NSW for public health professionals include developing clear strategies for action at both the central and Area/Regional levels; demonstrating the utility of epidemiologic analyses to health care decision-makers (including clinicians); developing better collaborative linkages between academic departments of public health and public health action/service groups; and effectively communicating information to health workers and the public in a timely manner.

The Bulletin will provide a useful mechanism for exchange of information and ideas on investigations, programs, and evaluations that (may) affect the health of the citizens of NSW.

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1. An organised societal effort to protect,

promote and restore health. It is a combination of sciences, skills and beliefs directed to the maintenance and improvement of health through collective or social actions. The programs, services and institutions involved emphasise the prevention of disease and the health needs of the population. 2. The study of the distribution and determinants of health-related states or events in specified populations and the application of this study to control health problems - it is the scientific discipline underpinning public health practice.
3. Department of Health, NSW. Epidemiology and Health Services Evaluation Branch. 1987 Maternal and Perinatal Report. 4. Health Services Implementation Branch. Central Office Department of Health, NSW.

Organisational Structure. November 1989.

Infectious Disease

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Compared with 1988, there was an eight-fold increase in the number of pertussis cases notified to the Department of Health in 1989 (Table 2). The greatest increase occurred in the latter part of 1989 — in the two months from October 1. The majority of cases occurred in one to two year old children. Males and females were affected equally. Increased pertussis reporting has persisted through to January 1990 (Tables 3 & 4). A likely explanation for this is that immunity of children against B. pertussis is currently suboptimal.

While measles is potentially preventable, cases continue to be notified. Their existence suggests that there is substantial room for improvement in present immunisation practices.

Arbovirus notifications increased during 1989 compared with 1988. It is not known whether this was due to more accurate reporting than previously, or a true increase in incidence. All reported arbovirus notifications were Ross River virus infections, with the majority of cases being reported from the South West Region.

No particular trend in reporting of enteric diseases between 1988 and 1989 could be detected other than Salmonella notifications increased 30% in 1989. Of enteric pathogens, Campylobacter, Giardia and Salmonella were notified more frequently than infections due to Shigella and Yersinia and unclassified infantile diarrhoea. Typhoid fever is no longer endemic in New South Wales; primary cases reported for 1988 and 1989 occurred in overseas visitors. Six cases were notified in the first 2 months of 1990 (Tables 3 & 4).

Sexually transmitted disease notifications declined in 1989 compared with 1988 — genital herpes (7.5%), gonorrhoea (19.2%), syphilis (6.5%) and non-specific urethritis (45%). This pattern of declining notifications is still evident in the first 2 months of 1990 (Table 3).

Malaria notifications increased substantially in the first 8 weeks of 1990 compared with the comparable period in 1989 (Table 3). The majority of these cases reside in northern Sydney (Table 4). Most of these cases were acquired in Papua New Guinea.

Reported by the Infectious Disease Section, Epidemiology and Health Services Evaluation Branch, Department of Health, NSW