EPI-NEWS

NATIONAL SURVEILLANCE OF COMMUNICABLE DISEASES

Editor: Peter Henrik Andersen

Dept. of Epidemiology

Statens Serum Institut • 5 Artillerivej • DK 2300 Copenhagen S

Tel.: +45 3268 3268 • Fax: +45 3268 3874 www.ssi.dk • epinews@ssi.dk • ISSN: 1396-4798

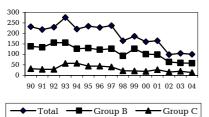


MENINGOCOCCAL DISEASE 2004

No. 15, 2005

In 2004, there were 100 notified cases of meningococcal disease (MD), which is at the same level as in 2003, figure 1.

Figure 1. Number of notified cases of meningococcal disease, 1990-



In 36 (36%) cases, a reminder was sent for a written notification.

Of the 100 patients, 23 had meningitis, 28 sepsis, and 49 both meningitis and sepsis as clinical manifestation. Distribution by county and incidence are shown in table 1.

Table 1. Number of notified cases of meningococcal disease in 2004, distributed by county and incidence per 10⁵. Incidence in 2003 in ()

County	Antal	Incidens	
Cph. Mun.	8	1,6	(1,4)
Frb. Mun.	0	-	-
Copenhagen	5	0,8	(2,3)
Frederiksborg	5	1,3	(1,1)
Roskilde	2	0,8	(0,4)
West Zealand	6	2,0	(1,3)
Storstrøm	6	2,3	(0,8)
Bornholm	2	4,6	-
Funen	12	2,5	(1,5)
South Jutland	3	1,2	(3,2)
Ribe	4	1,8	(1,8)
Vejle	9	2,5	(2,8)
Ringkøbing	7	2,5	(4,0)
Aarhus	12	1,8	(1,7)
Viborg	7	3,0	(3,4)
North Jutland	11	2,2	(2,8)
Other	1	-	-
Total	100	1,9	(2,0)

As previously, the incidence was highest in children < 2 years and in adolescents aged 14-17 years, table 2.

Sequelae of the disease

A total of six patients died (6%), table 2. All had sepsis with or without meningitis as clinical manifestation. Four of these had meningococci of serogroup B, one group Y, and one had clinical meningococcal disease. For nine patients, information was provided about sequelae: two suffered hearing impairment, one had extremities amputated because of necrosis, four reactive arthritis, one dizziness and one strabismus in one eye.

Diagnosis

In 79 (79%) patients, meningococci were detected by culture, and in one

Table 2. Number of notified cases of meningococcal disease in 2004, distributed by age, serogroup B and C, M/F ratio, incidence per 10⁵ and number deceased

				M/F	Inci-	
Age (year)	Gr. B	Gr. C	Total	ratio	dence	Deceased
< 1	7	2	11	2,6	16,9	1
1-2	8	1	12	0,7	9,2	2
3-6	6	0	9	3,5	3,3	0
7-13	7	2	14	1,8	2,9	1
14-17	9	7	21	1,6	8,5	0
18-29	3	0	8	1,7	1,0	1
30-39	1	0	1	0,0	0,1	0
+ 40	17	2	24	0,8	0,9	1
Total	58	14	100	1,5	1,9	6

by counterimmunoelectrophoresis (CIE). The remaining 20 patients had clinical MD; 17 of these had positive meningococcal antibody titre (MAT), one had positive microscopy of spinal fluid, and in two cases, the diagnosis was clinical.

of the CIE-verified cases, serological grouping was performed in the Neisseria department at SSI: 58 serogroup B, 14 C, three Y, two W135, and one X. Neither of the two patients with meningococcal disease W135 had had overseas contact.

Clustered cases

Three clusters were recorded, with a total of three secondary cases:

- Two siblings admitted the same day, one group B and one positive MAT.
- Two siblings admitted at an interval of one day, both group B.
- Two children in the same day-care institution admitted at an interval of one day, both group B.

(A. H. Christiansen, K. Mølbak, Department of Epidemiology)

NOTIFICATION AND PROPHY-LACTIC TREATMENT IN THE **EVENT OF MENINGOCOCCAL** DISEASE

The medical officer institutions (ELI) have observed that health personnel may be uncertain about the distribution of responsibility on initiation of prophylactic treatment of contacts in the event of a case of MD. The current rules are therefore laid out in more detail.

MD should be notified both by telephone and in writing. Notification by telephone should take place immediately in the event of proven or suspected MD to ELI in the county where the patient is resident. Outside of normal opening hours, two medical officers on call cover the eastern and western parts of Denmark, respectively, EPI-NEWS 23/2003.

Notification in writing should take place on form 1515 to ELI and the Department of Epidemiology, SSI.

Prophylactic treatment of contacts

The patient's household and similarly close contacts:

All who have slept together with the patient within the last ten days or have an intimate kissing relationship with him or her are informed and of-In 77 of the 79 culture-verified and one fered prophylaxis, generally tablets of ciprofloxacin 500 mg (children 20 mg/kg body weight, but maximum 500 mg) as a one-off dose as quickly as possible after the clinical diagnosis has been made. The treating doctor should initiate this after consultation with ELL

Other contacts:

On the basis of a concrete assessment, ELI decides which contacts besides the household should be informed and where appropriate offered prophylactic treatment. ELI secures information with view to possible later follow-up.

Health personnel:

Health personnel who have cared for the patient do not have an increased risk, and prophylactic treatment is therefore not usually recommended for these.

Information:

ELI is responsible for informing daycare institutions/schools, doctors on call in the area and other relevant working partners. The Danish Board of Health has prepared an information booklet about MD that is available on www.eli.dk

Vaccination:

When grouping of the meningococcal bacterium is available, the medical officer will decide whether to offer vaccination.

(B. Møller, Medical officer institution for Copenhagen Municipality and Frederiksberg Municipality)

HEPATITIS A OUTBREAK OVER

Since December 2004, there have been no notified cases of hepatitis A among men who have sex with men. The outbreak discussed in EPI-NEWS 52/04 is therefore considered to be over. (M. Howitz, Department of Epidemi-

Individually notifiable diseases

Number of notifications received in the Department of Epidemiology, SSI (2005 figures are preliminary)

Table 1	Week 14 2005	Cum. 2005 ¹⁾	Cum. 2004 ¹⁾
AIDS	1	20	7
Anthrax	0	0	0
Botulism	0	0	0
Cholera	0	0	0
Creutzfeldt-Jakob	0	2	4
Diphtheria	0	0	0
Food-borne diseases	3	80	90
of these, infected abroad	0	17	14
Gonorrhoea	13	169	80
Haemorrhagic fever	0	0	0
Hepatitis A	3	32	28
of these, infected abroad	1 1	8	6
Hepatitis B (acute)	0	15	6
Hepatitis B (chronic)	3	44	44
Hepatitis C (acute)	0	1	1
Hepatitis C (chronic)	9	82	111
HIV	7	99	78
Legionella pneumonia	1	17	18
of these, infected abroad	0	2	2
Leprosy	0	0	0
Leptospirosis	2	7	1
Measles	0	0	0
Meningococcal disease	1	19	36
of these, group B	1 1	14	22
of these, group C	0	1	5
of these, unspec. + other		4	9
Mumps	0	3	0
Neuroborreliosis	0	15	50
Ornithosis	0	6	2
Pertussis (children < 2 years)	4	67	55
Plague	0	0	0
Polio	0	0	0
	U	U	0
Purulent meningitis	0	0	0
Haemophilus influenzae Listeria monocytogenes	-	0	_
	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	31	1 36
Streptococcus pneumoniae			
Other aethiology	0	0	3
Unknown aethiology	0	1	4
Under registration	3	32	-
Rabies	0	0	0
Rubella (congenital)	0	0	0
Rubella (during pregnancy)	0	0	0
Shigellosis	0	27	22
of these, infected abroad	0	24	18
Syphilis	5	32	52
Tetanus	0	2	0
Tuberculosis	11	114	98
	_		6
Typhoid/paratyphoid fever	2	11	
Typhoid/paratyphoid fever of these, infected abroad	0	8	4
Typhoid/paratyphoid fever of these, infected abroad Typhus	0	8	4 0
Typhoid/paratyphoid fever of these, infected abroad	0	8	4

Selected laboratory diagnosed infections

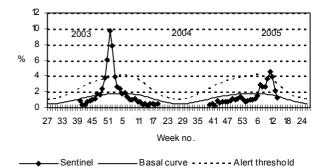
Number of specimens, isolates, and/or notifications received in SSI laboratories

Table 2	Week 14 2005	Cum. 2005 ²⁾	Cum. 2004 ²⁾
Bordetella pertussis			
(all ages)	9	206	207
Gonococci	14	122	81
of these, females	1	18	12
of these, males	13	104	69
Listeria monocytogenes	0	8	9
Mycoplasma pneumoniae			
Resp. specimens ³⁾	8	537	49
Serum specimens 4)	12	393	111
Streptococci 5)			
Group A streptococci	1	44	42
Group B streptococci	1	15	17
Group C streptococci	0	5	6
Group G streptococci	2	38	28
S. pneumoniae	36	445	505
Table 3	Week 12	Cum.	Cum.
	2005	2005 2)	2004 2)
Pathogenic int. bacteria ⁶⁾			
Campylobacter	9	449	516
S. Enteritidis	4	80	69
S. Typhimurium	5	74	73
Other zoon. salmonella	7	109	97
Yersinia enterocolitica	1	46	36

²⁾ Cumulative number 2005 and in corresponding period 2004

Sentinel surveillance of the influenza activity

Weekly percentage of consultations, 2003/2004/2005



Sentinel: Influenza consultations

(as percentage of total consultations)

Basal curve: Expected frequency of consultations

under non-epidemic conditions

Possible incipient epidemic Alert threshold:

³⁾ Resp. specimens with positive PCR

⁴⁾ Serum specimens with pos. complement fixation test, MPT

⁵⁾ Isolated in blood or spinal fluid

⁶⁾ See also www.germ.dk