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

The influenza pandemic

Global epidemics (pandemics) with influenza A occur in connection with the emergence of new influenza viruses that spread by sustained human-to-human transmission. Pandemics occur a few times every century; the previous pandemic was the Hong Kong influenza in 1968/69 which was caused by a novel type of influenza A(H3N2). When the new influenza A(H1N1) was identified as the cause of the 21st century's first pandemic, a number of factors were instrumental in helping to control the course of the epidemic:

-Denmark, as most other countries, had implemented a number of pandemic influenza preparedness measures. Owing to such measures, the world was better prepared than ever before to counter a pandemic.

- The new pandemic unexpectedly started in North America, and therefore data on the characteristics of the disease were published relatively early.

- As the pandemic started in the spring, its initial wave ("the summer influenza") had limited impact on public health in the majority of the countries of the Northern Hemisphere. Concurrently, reliable data on the pandemic became available as the winter season of the Southern Hemisphere passed, facilitating a downgrading of worst case scenarios. However, some uncertainty concerning morbidity and mortality remained, and several scenarios needed to be taken into account as the next steps were planned. - The timing of the epidemic meant that vaccines were available by November 2009, when the second and more widespread wave hit Europe. As pandemic vaccines cannot be produced until the new pandemic virus has been identified, it is far from certain that vaccines will be avail-

able when needed. - It was a distinctive feature that did not entail considerable disease occurrence among the weakened elderly who typically have a high influenza mortality risk. At present, the epidemic has not caused overall excess mortality in the population. The overall picture we are starting to see is that of a mild pandemic. It would, however, be premature to draw such conclusion at present. It is expected that the novel influenza A(H1N1) will become the new seasonal influenza in years to come,

INFECTIOUS DISEASES 2009

but the epidemiology of the shift from pandemic to seasonal influenza is poorly understood. In the case of the Hong Kong influenza, the excess mortality was highest the year after identification of the pandemic. It is therefore too early to prepare final estimates of the disease burden of the current pandemic.

Current status in Denmark

It is estimated that approx. 500,000 Danes have had influenza A(H1N1), including nearly 5,000 verified cases. A minimum of 1,000 have been admitted to hospital, including 80 to an intensive care unit. Nearly 30 cases of laboratory-confirmed influenza, the vast majority of whom were unvaccinated persons with chronic disease, have currently been registered as influenza-associated deaths. The large number of admissions calls for further comment: Children aged 5-14 years of age contribute heavily to admissions. This is in line with the fact that this age-group kick-started the epidemic and that this age group suffered from the largest disease burden.

Vaccination efforts

As mentioned above pandemic vaccines were available, even though the interval from initiation of vaccination to the peak of the epidemic should, ideally, have been longer. The epidemic started among children and only later affected adults. Thanks to considerable effort from primarily GPs, vaccination of a large proportion of the risk group below 65 years of age - the group with the highest risk of life-threatening disease - was thus achieved. The vaccines, the decision-process and the scope of the efforts made have been a subject of discussion in the media. In comparison to several of the countries with which we normally compare ourselves, Denmark ordered fewer vaccines. This is so, among others, because the pandemic was assessed to be relatively mild. Consequently, the primary objective of the efforts made have been the protection of chronically ill persons, health staff and a limited number of key persons occupying posts of societal importance. In relation to the latter groups, efforts remain relevant, as cases of influenza A(N1H1) will keep occurring during the winter and early spring, and A(H1N1) is

No. 1, 2010

expected to cause seasonal influenza by the coming winter.

At one point, it was questioned if the low number of vaccines ordered by Denmark compared to e.g. Norway and Sweden was justifiable. Currently, the opposite position sets the trend: Nearly regardless of how the last part of the vaccination efforts turns out, there will be more vaccines than needed. However, supply during the autumn was proportional to the overall number of ordered vaccines, and consequently riskgroups would have been in a poorer position if Denmark had ordered fewer vaccines. The current beneficial vaccine situation is also explained by the fact that the vaccine proved to be effective already after the first dose. This change could not be reflected in planning assumptions as contracts on pandemic vaccines were negotiated much earlier. 2010 will see an assessment of the efforts made, and in such context it will be assessed how we may further improve Danish preparedness measures for new epidemics.

The Danish Vaccination Register

In 2009, the establishment of a national Danish Vaccination Register was initiated. The register will serve several purposes. Citizens and physicians will gain access to an electronic vaccination card comprising all received vaccinations, which is a measure of considerable practical importance. Furthermore, the register will provide an excellent basis for monitoring and research. The register is used for registration of some pandemic vaccines, EPI-NEWS 45/09.

Improved surveillance of infectious diseases

2009 saw the establishment of a nation-wide microbiological database: The Danish Microbiology Database. This was possible thanks to wellfunctioning cooperation with Danish microbiology departments. An important goal for 2010 is to start using the new resource to improve surveillance. Furthermore, it will be analysed how clinical surveillance based on the microbiology database may be modernised.

(K. Mølbak, Department of Epidemiology)



Individually notifiable diseases

Number of notifications received in the Department of Epidemiology, SSI (2009 figures are preliminary)

AdDe 1 2009 2009 2008 1 AIDS 0 43 40 Anthrax 0 0 0 Botulism 0 0 1 Cholera 0 0 1 Creutzfeldt-Jakob 0 9 5 Diphtheria 0 0 0 Food-borne diseases 3 517 848 of these, infected abroad 2 93 136 Gonorrhoea 6 568 393 Haemorrhagic fever 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 155 179 Hepatitis C (chronic) 2 273 258 HIV 1 25 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 6 64 36 <	Table 1	Week 53	Cum.	Cum.
AIDS04340Anthrax000Botulism001Cholera001Creutzfeldt-Jakob095Diphtheria000Food-borne diseases3517848of these, infected abroad293136Gonorrhoea6568393Haemorrhagic fever000Hepatitis A03449of these, infected abroad22528Hepatitis B (acute)0155179Hepatitis C (acute)1166Hepatitis C (acute)1166Hepatitis C (chronic)2273258HIV1259263263Legtonella pneumonia0132125of these, infected abroad03246Leprosy0000Leptospirosis108Measles0911Meningococcal disease06764of these, group C02218of these, unspec. + other0814Mumps0136Pertussis (children < 2 years)		2009	2009 1)	2008 1)
Anthrax 0 0 0 Botulism 0 0 1 Cholera 0 0 1 Creutzfeldt-Jakob 0 9 5 Diphtheria 0 0 0 Food-borne diseases 3 517 848 of these, infected abroad 2 93 136 Gonorhoea 6 568 393 Haemorrhagic fever 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 155 179 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 32 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 32 of these, group B 0 38 32 0 of these, unspec. + other 0 8 14	AIDS	0	43	40
Botulism001Cholera001Creutzfeldt-Jakob000Diphtheria000Food-borne diseases3517848of these, infected abroad293136Gonorrhoea6568393Haemorrhagic fever000Hepatitis A03449of these, infected abroad22528Hepatitis B (acute)02424Hepatitis B (chronic)0155179Hepatitis C (acute)1166Hepatitis C (chronic)2273258HIV1259263Legionella pneumonia03246Leprosy0000Leptospirosis108Measles0911Meningococcal disease06764of these, group B03832of these, group C0100Ormithosis0136Pertussis (children < 2 years)	Anthrax	0	0	0
Cholera001Creutzfeldt-Jakob095Diphtheria000Food-borne diseases3517848of these, infected abroad293136Gonornhoea6568393Haemornhagic fever000Hepatitis A03449of these, infected abroad22528Hepatitis B (acute)0155179Hepatitis C (acute)1166Hepatitis C (acute)1166Hepatitis C (acute)11259263Legionella pneumonia03246Leprosy0000Leptospirosis108Measles0911Meningococcal disease06764of these, group B03832of these, group C02218of these, unspec. + other0814Mumps01626Neuroborreliosis0100Orithosis0100Plaque000Plaque06883Other aethiology0921Unknown aethiology01821Unknown aethiology000Other aethiology000Query000Streptococcus pneumoniae <td>Botulism</td> <td>0</td> <td>0</td> <td>1</td>	Botulism	0	0	1
Creutzfeldt-Jakob095Diphtheria000Food-borne diseases3517848of these, infected abroad293136Gonorrhoea6568393Haemorrhagic fever000Hepatitis A03449of these, infected abroad22528Hepatitis B (acute)0155179Hepatitis C (chronic)2273258HIV1259263Legionella pneumonia0132125of these, infected abroad03246Leprosy0000Leptospirosis108832of these, group B0383232of these, group C0221814Mumps0162626Neuroborreliosis01000Plague0000Plague0000Plague0000Purulent meningitis	Cholera	0	0	1
Diphtheria000Food-borne diseases3517848of these, infected abroad293136Gonorhoea6568393Haemorrhagic fever000Hepatitis A03449of these, infected abroad22528Hepatitis B (acute)0155179Hepatitis B (chronic)0155179Hepatitis C (acute)1166Hepatitis C (acute)11259263Legionella pneumonia03246Leprosy0000Leptospirosis108Measles0911Meningococcal disease06764of these, group B03832of these, group C02218of these, unspec. + other0814Mumps0136Pertussis (children < 2 years)	Creutzfeldt-Jakob	0	9	5
Food-borne diseases 3 517 848 of these, infected abroad 2 93 136 Gonorrhoea 6 568 393 Haemorrhagic fever 0 0 0 Hepatitis A 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 15 179 Hepatitis C (acute) 1 16 6 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 0 Measles 0 9 11 Measles 16 26 Netrosis 0 16 26 13 6 Pagates 0 13 6 14 Mumps 0 16 57 5 </td <td>Diphtheria</td> <td>0</td> <td>0</td> <td>0</td>	Diphtheria	0	0	0
of these, infected abroad 2 93 136 Gonorrhoea 6 568 393 Haemorrhagic fever 0 0 0 Hepatitis A 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 155 179 Hepatitis C (acute) 1 16 6 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 0 Measles 0 9 11 Maingococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 13 6 Pertussis (children < 2 years)	Food-borne diseases	3	517	848
Gonorrhoea 6 568 393 Haemorrhagic fever 0 0 0 Hepatitis A 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 155 179 Hepatitis C (acute) 1 16 6 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 322 of these, group B 0 38 32 11 Meningococcal disease 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	of these, infected abroad	2	93	136
Haemorrhagic fever 0 0 0 Hepatitis A 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 155 179 Hepatitis C (acute) 1 16 6 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 32 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 122 18 Mumps 0 16 26 Neuroborreliosis 0 16 26 Neuroborreliosis 0 105 97 Plague 0 0 0 Pague 0 0 0 0 0	Gonorrhoea	6	568	393
Henditis A 0 34 49 Hepatitis A 0 34 49 of these, infected abroad 2 25 28 Hepatitis B (acute) 0 14 24 Hepatitis C (acute) 1 16 6 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 64 61 67 64 of these, group C 0 38 32 6 16 26 Neuroborreliosis 0 13 6 7 Ornithosis 0 105 97 7 Plague 0 0 0 <td>Haemorrhagic fever</td> <td>0</td> <td>0</td> <td>0</td>	Haemorrhagic fever	0	0	0
Inspirate Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad <thimage a="" and="" broad<="" fact="" in="" of="" set="" th="" the=""> Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad Image of the set in fact and a broad <thimage a="" and="" broad<="" fact="" in="" of="" set="" th="" the=""> <thi< td=""><td>Henatitis A</td><td>0</td><td>34</td><td>49</td></thi<></thimage></thimage>	Henatitis A	0	34	49
Interfere Interfere <thinterfere< th=""> <thinter< th=""> <thinter< td=""><td>of these infected abroad</td><td>2</td><td>25</td><td>28</td></thinter<></thinter<></thinterfere<>	of these infected abroad	2	25	28
Integration Image of the set of the s	Henatitis B (acute)	0	20	20
Hepatitis D (anule) 1 16 175 Hepatitis C (acute) 1 16 6 Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 13 6 Pertussis (children < 2 years)	Hepatitis B (chronic)	0	155	179
Hepatitis C (chronic) 2 273 258 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 105 97 Plague 0 0 0 Polio 0 0 0 Polio 0 0 0 Purulent meningitis - - - Haemophilus influenzae 0 5 5 Listeria monocytogenes 0 5 1 Streptococcus pneumoniae 0 68 83 Other aethiology 0 18 </td <td>Henatitis C (acute)</td> <td>1</td> <td>100</td> <td>6</td>	Henatitis C (acute)	1	100	6
Heighting C (chronic) 2 27.5 2.50 HIV 1 259 263 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 13 6 Pertussis (children < 2 years)	Henatitis C (chronic)	2	273	258
Inv 1 2.33 2.03 Legionella pneumonia 0 132 125 of these, infected abroad 0 32 46 Leprosy 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 105 97 Plague 0 0 0 0 Polio 0 0 0 0 Polio 0 0 0 0 Plague 0 5 1 Streptococcus pneumoniae 0 68 83 Other aethiology 0 18 21 Unknown aethiology 0 0 0 Under registration 1 28 - <		<u> </u>	275	250
Legionena pineumonia 0 132 123 of these, infected abroad 0 32 46 Leprosy 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 105 97 Ornithosis 0 105 97 Plague 0 0 0 Polio 0 0 0 Polio 0 0 0 Purulent meningitis - - Haemophilus influenzae 0 5 5 Listeria monocytogenes 0 5 1 Streptococcus pneumoniae 0 68 83 Other aethiology 0 18 21 Under registration 1 28 -	Logionella proumonia	1	2J9 122	203
Of these, infected abroad 0 3.2 46 Leprosy 0 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 11 6 Ornithosis 0 105 97 Plague 0 0 0 Polio 0 0 0 Purulent meningitis - - - Haemophilus influenzae 0 5 1 Streptococcus pneumoniae 0 68 83 Other aethiology 0 9 21 Unknown aethiology 0 18 21 Under registration 1 28 - Rabies	Legionena prieumonia		132	125
Leprosy 0 0 0 0 Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 105 97 Plague 0 0 0 Polio 0 0 0 Purulent meningitis	l inese, infected abroad	0	32	40
Leptospirosis 1 0 8 Measles 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 105 97 Plague 0 0 0 Polio 0 0 0 Purulent meningitis	Leprosy	0	0	0
Intensities 0 9 11 Meningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 105 97 Plague 0 0 0 Polio 0 0 0 Purulent meningitis - - - Haemophilus influenzae 0 5 5 Listeria monocytogenes 0 5 1 Streptococcus pneumoniae 0 68 83 Other aethiology 0 9 21 Unknown aethiology 0 18 21 Under registration 1 28 - Rabies 0 0 0 of these, infected abroad	Leptospirosis	1	0	8
Menningococcal disease 0 67 64 of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	Measles	0	9	
of these, group B 0 38 32 of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	Meningococcal disease	0	67	64
of these, group C 0 22 18 of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	of these, group B	0	38	32
of these, unspec. + other 0 8 14 Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	of these, group C	0	22	18
Mumps 0 16 26 Neuroborreliosis 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	of these, unspec. + other	0	8	14
Neuroborreliosis 0 61 57 Ornithosis 0 13 6 Pertussis (children < 2 years)	Mumps	0	16	26
Ormithosis 0 13 6 Pertussis (children < 2 years)	Neuroborreliosis	0	61	57
Pertussis (children < 2 years) 0 105 97 Plague 0 0 0 0 Polio 0 0 0 0 Purulent meningitis 0 5 5 Listeria monocytogenes 0 5 1 Streptococcus pneumoniae 0 68 83 Other aethiology 0 9 21 Unknown aethiology 0 18 21 Under registration 1 28 - Rabies 0 0 0 0 Rubella (congenital) 0 0 0 0 Strigellosis 1 107 85 66 Syphilis 1 292 147 Tetanus 0 0 2 147 Tetanus 0 0 2 147 Tetanus 0 27 32 0 14 364 386 Typhoid/paratyphoid fever 0	Ornithosis	0	13	6
Plague000Polio000Purulent meningitis055Listeria monocytogenes051Streptococcus pneumoniae06883Other aethiology0921Unknown aethiology01821Under registration128-Rabies0000Rubella (congenital)000Shigellosis110785of these, infected abroad022147Tetanus002147Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Pertussis (children < 2 years)	0	105	97
Pono000Purulent meningitisHaemophilus influenzae051Listeria monocytogenes051Streptococcus pneumoniae06883Other aethiology0921Unknown aethiology01821Under registration128-Rabies000Rubella (congenital)000Shigellosis110785of these, infected abroad022Tuberculosis4364386Typhoid/paratyphoid fever000VTEC/HUS1149146of these, infected abroad03452	Plague	0	0	0
Purulent meningitis05Haemophilus influenzae051Streptococcus pneumoniae06883Other aethiology0921Unknown aethiology01821Under registration128-Rabies000Rubella (congenital)000Shigellosis110785of these, infected abroad022Tuberculosis4364386Typhoid/paratyphoid fever0022of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Polio	0	0	0
Haemophilus influenzae055Listeria monocytogenes051Streptococcus pneumoniae06883Other aethiology0921Unknown aethiology01821Under registration128-Rabies000Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Purulent meningitis		_	_
Listeria monocytogenes051Streptococcus pneumoniae06883Other aethiology0921Unknown aethiology01821Under registration128-Rabies000Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Haemophilus influenzae	0	5	5
Streptococcus pneumoniae06883Other aethiology0921Unknown aethiology01821Under registration128-Rabies000Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Listeria monocytogenes	0	5	1
Other aethiology0921Unknown aethiology01821Under registration128-Rabies000Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Streptococcus pneumoniae	0	68	83
Unknown aethiology Under registration01821Under registration128-Rabies000Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Other aethiology	0	9	21
Under registration128-Rabies000Rubella (congenital)000Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Unknown aethiology	0	18	21
Rabies000Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Under registration	1	28	-
Rubella (congenital)004Rubella (during pregnancy)000Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Rabies	0	0	0
Rubella (during pregnancy) 0 0 0 0 Shigellosis 1 107 85 of these, infected abroad 0 82 68 Syphilis 1 292 147 Tetanus 0 0 2 Tuberculosis 4 364 386 Typhoid/paratyphoid fever 0 27 32 of these, infected abroad 0 22 26 Typhus exanthematicus 0 0 0 VTEC/HUS 1 149 146 of these, infected abroad 0 34 52	Rubella (congenital)	0	0	4
Shigellosis110785of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Rubella (during pregnancy)	0	0	0
of these, infected abroad08268Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Shigellosis	1	107	85
Syphilis1292147Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	of these, infected abroad	0	82	68
Tetanus002Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Syphilis	1	292	147
Tuberculosis4364386Typhoid/paratyphoid fever02732of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Tetanus	0	0	2
Typhoid/paratyphoid fever of these, infected abroad02732Typhus exanthematicus00226VTEC/HUS of these, infected abroad1149146	Tuberculosis	4	364	386
of these, infected abroad02226Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	Typhoid/paratyphoid fever	0	27	32
Typhus exanthematicus000VTEC/HUS1149146of these, infected abroad03452	of these, infected abroad	0	22	26
VTEC/HUS1149146of these, infected abroad03452	Typhus exanthematicus	0	0	0
of these, infected abroad 0 34 52	VTEC/HUS	1	149	146
	of these, infected abroad	0	34	52

Selected laboratory diagnosed infections

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

Table 2	Week 53	Cum.	Cum.	
	2009	2009 ²⁾	2008 ²⁾	
Bordetella pertussis				
(all ages)	6	194	196	
Gonococci	10	458	376	
of these, females	5	121	79	
of these, males	5	337	297	
Listeria monocytogenes	3	96	50	
Mycoplasma pneumoniae				
Resp. specimens ³⁾	4	105	103	
Serum specimens ⁴⁾	4	145	108	
Streptococci 5)				
Group A streptococci	4	147	134	
Group B streptococci	3	127	125	
Group C streptococci	1	35	23	
Group G streptococci	5	174	125	
S. pneumoniae	38	1047	916	
Table 2	Week 51	Cum.	Cum.	
	2009	2009 ²⁾	2008 ²⁾	
MRSA	9	749	786	
Pathogenic int. bacteria ⁶⁾				
Campylobacter	10	3250	3429	
S. Enteritidis	2	595	635	
S. Typhimurium	5	768	1975	
Other zoon. salmonella	7	735	1004	
Yersinia enterocolitica	1	219	328	
Verocytotoxin-				
producing E. coli	2	166	158	
Enteropathogenic E. coli	4	219	213	
Enterotoxigenic E. coli	1	324	416	
²⁾ Cumulative number 2009 and in corresponding period 2008				

 $^{\rm 3)}$ Resp. specimens with positive PCR

⁴⁾ Serum specimens with pos. complement fixation test

⁵⁾ Isolated in blood or spinal fluid

⁶⁾ See also www.germ.dk

Sentinel surveillance of the influenza activity

Weekly percentage of consultations, 2008/2009/2010



Sentinel:	Influenza consultations (as percentage of total consultations)
Basal curve:	Expected frequency of consultations under non-epidemic conditions
Alert threshold:	Possible incipient epidemic

Cumulative number 2009 and in corresponding period 2008

6 January 2010