Czech Republic

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General information – Czech Republic

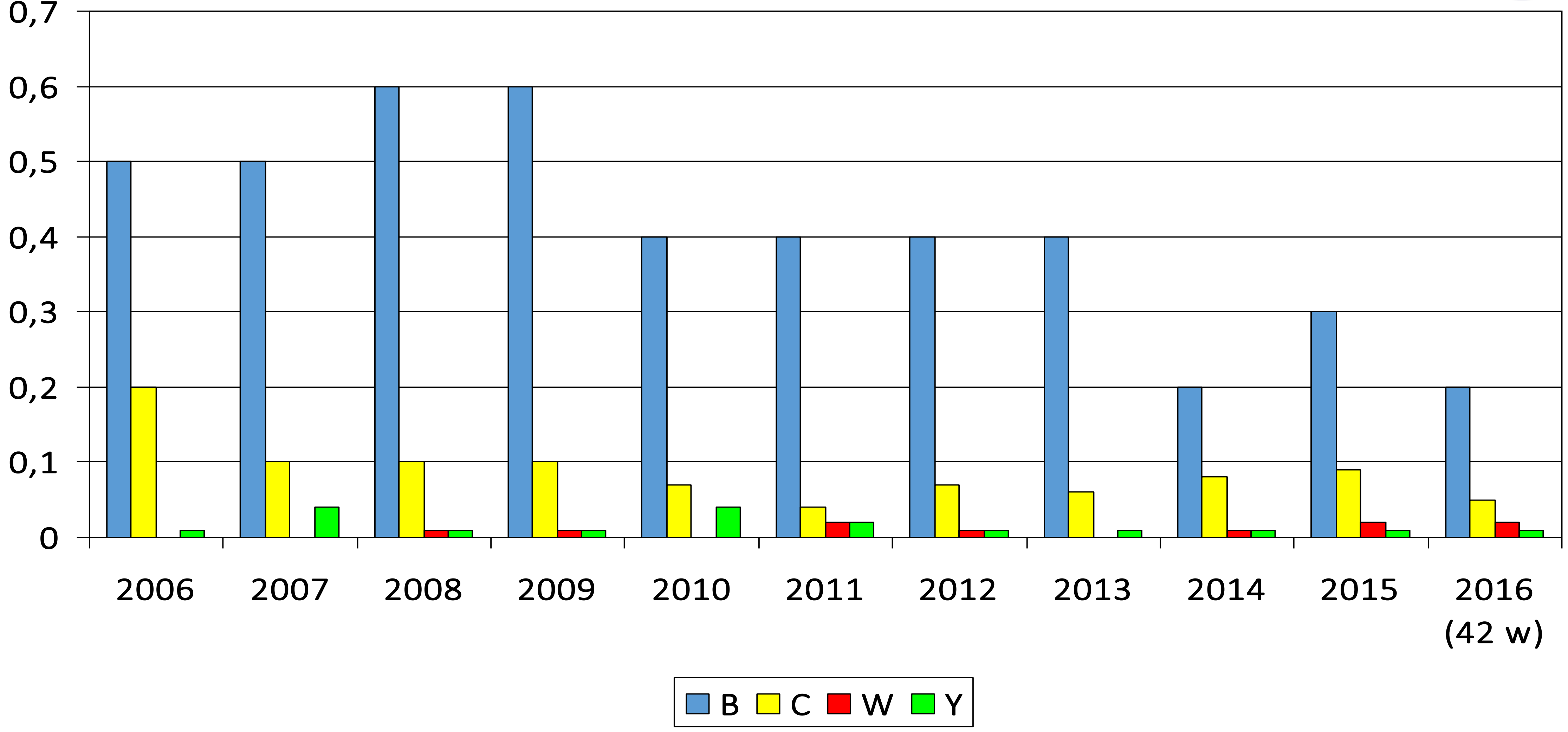
Population size 10 553 843 in 2015	Category	
Structure of surveillance of meningococcal disease	Statutory notification of disease **Enhanced surveillance** Centralized Laboratory Surveillance	Yes **Yes – since 1993** Yes
NRL: repertoire of typing targets	Serogroup PorA antigen sequence typing FetA antigen sequence typing Vaccine Antigen sequence typing (e.g. fhbp) Antibiotic resistance gene typing MLST (7 loci) Genome sequencing	**Yes** **Yes** **Yes** **Yes** **Yes** **Yes** **Occasionally - research**
Meningococcal vaccine recommendation **YES by NICO,** **but not reimbursed**	Polysaccharide vaccines (not conjugated) MenC conjugate **MenACWY conjugate** **Protein vaccines targeting MenB**	**No** **No** **YES + Risk group** **YES + Risk group**
Uptake of Men**WY** vaccines	estimated % per target group size	very low %

Basic numbers for 2015 and 2016 (42 w) Czech Republic, surveillance data

	2015	**2016 (42 w)**
No of reported cases of **invasive meningococcal disease** * (incidence rate)	N = **48** (**0.5**/100,000)	N = **33** (**0.3**100,000)
Proportion of reported cases of invasive meningococcal disease, whose strains or samples were processed at NRL *(=laboratory surveillance coverage of reported cases)*	95.8 % NRL = 70.8 % field labs = 25.0 %	90.9 % NRL = 75.8 % field labs = 15.1 %
Men**W** •no of cases, •incidence rate, •% of all cases	N = **3** **0.02**/100,000 **6.2** %	N = **3** **0.02**/100,000 **9.1**%
Men**Y** •no of cases, •incidence rate, •% of all cases	N = **1** **0.009** /100,000 **2.1** %	N = **1** **0.009** /100,000 **3.0** %

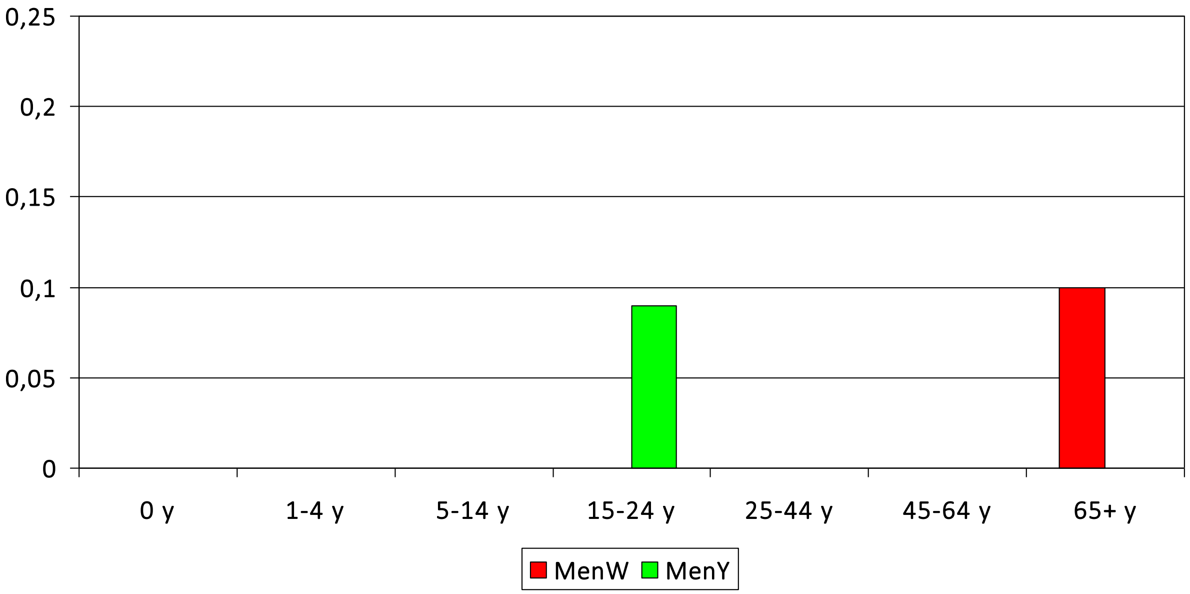
* please use ECDC case definition

Incidence rates (N/100,000/a) for serogroups B, C, W, Y from 2006-2016 (42 w), Czech Republic, surveillance data

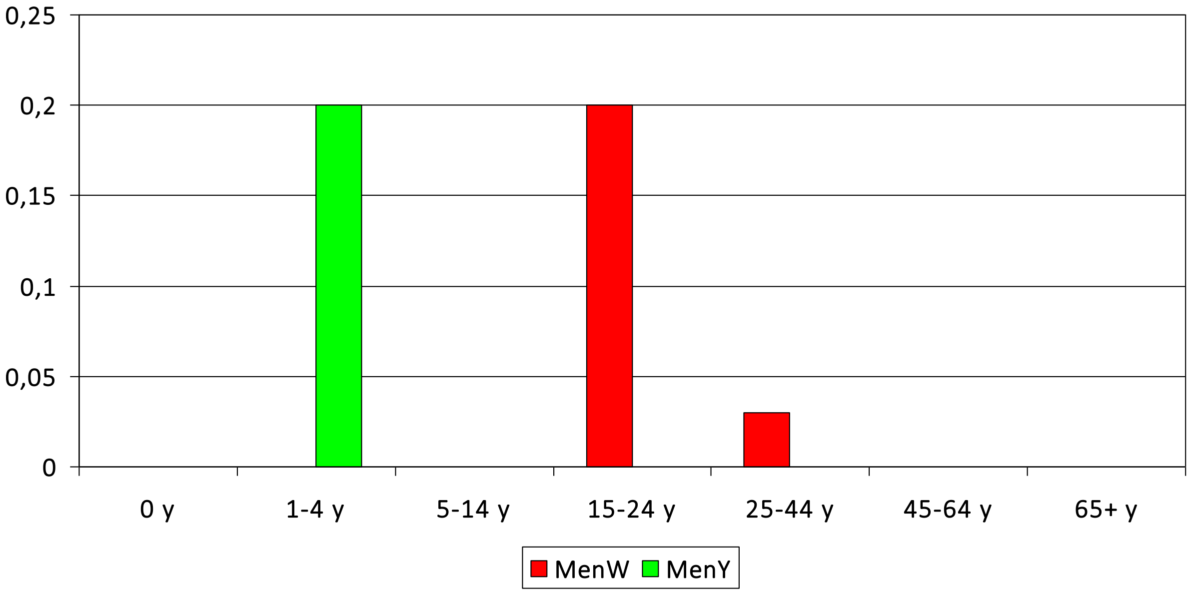


Age specific incidence rates 2015 and 2016 (42 w) for serogroups W and Y (N/100,000 of age group/a), Czech Republic, surveillance data

2015

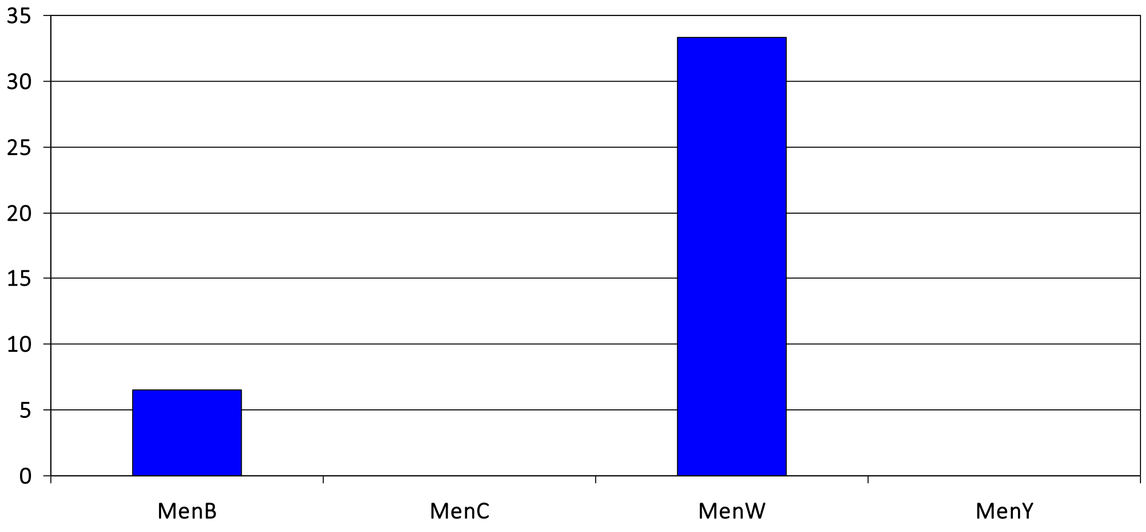


2016 (42 w)

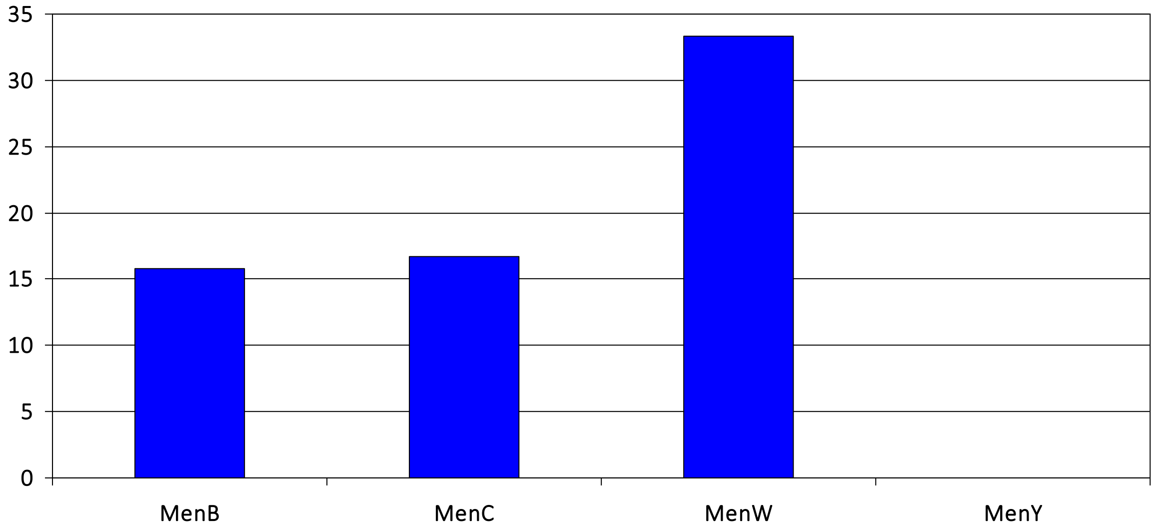


Case fatality rates 2015 and 2016 (42 w) (in %) for serogroups B, C, W, Y - Czech Republic, surveillance data

2015



2016 (42 w)



Sequence typing of MenW in 2015 and 2016 (42 w)
Czech Republic, surveillance data

Year	**2015** **2 cases**	**2016 (42 w)** **3 cases**
Dominant variant according to the typing method used	**cc22** **cc865**	**cc11 = imported** **cc865** **ND = PCR**
Dominant variant according to the typing method used, in % of all MenW cases	50 % 50 %	33.3 % 33.3 % 33.3 %
cc11 in % of all serogroup W cases	0	33.3 %

Outbreaks caused by serogroups W and Y 2012 – 2016 (42 w) Czech Republic, surveillance data

	MenW	MenY
Number of outbreaks or clusters	0	0
Total number of patients involved		
Settings		