

Surveillance of Pneumococcal Disease in ESTONIA

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Estonia

- Population is 1.3 million
- Birth cohort is ~13,000
- The territory of Estonia covers 45,227 km²
- The capital and largest city is Tallinn (~400,000 inhabitants)
- Estonia is divided into 15 counties
- EU MS since 1 May 2004
- The border is 1446 km:
764 km of sea borders;
339 km - external border of the EU with Russia





Description of the Pneumococcal infection Surveillance System

Clinical presentations under the Surveillance:

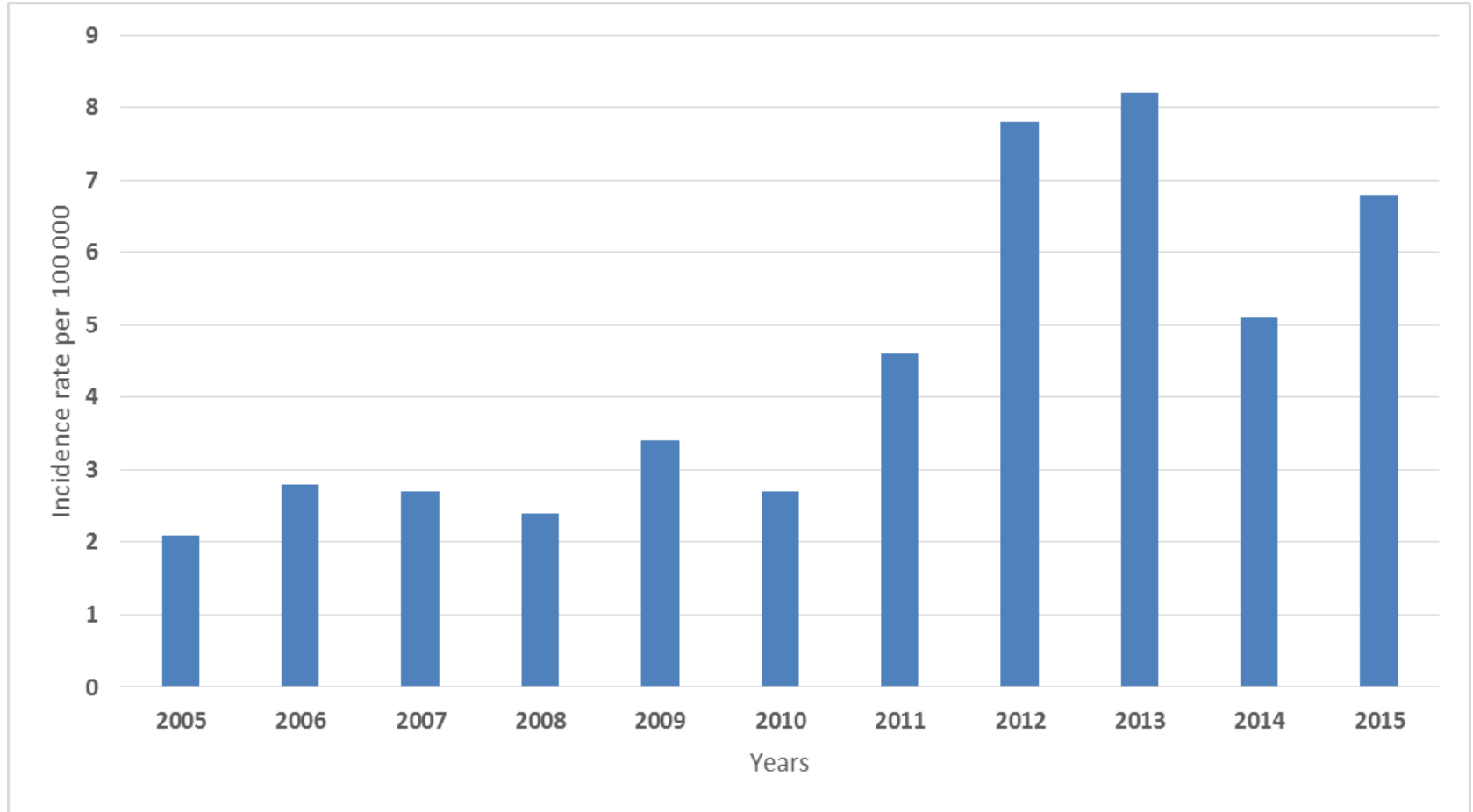
- Meningitis (G00.1)
- Septicaemia (A40.3)
- Pneumonia (J13)

Existing system:

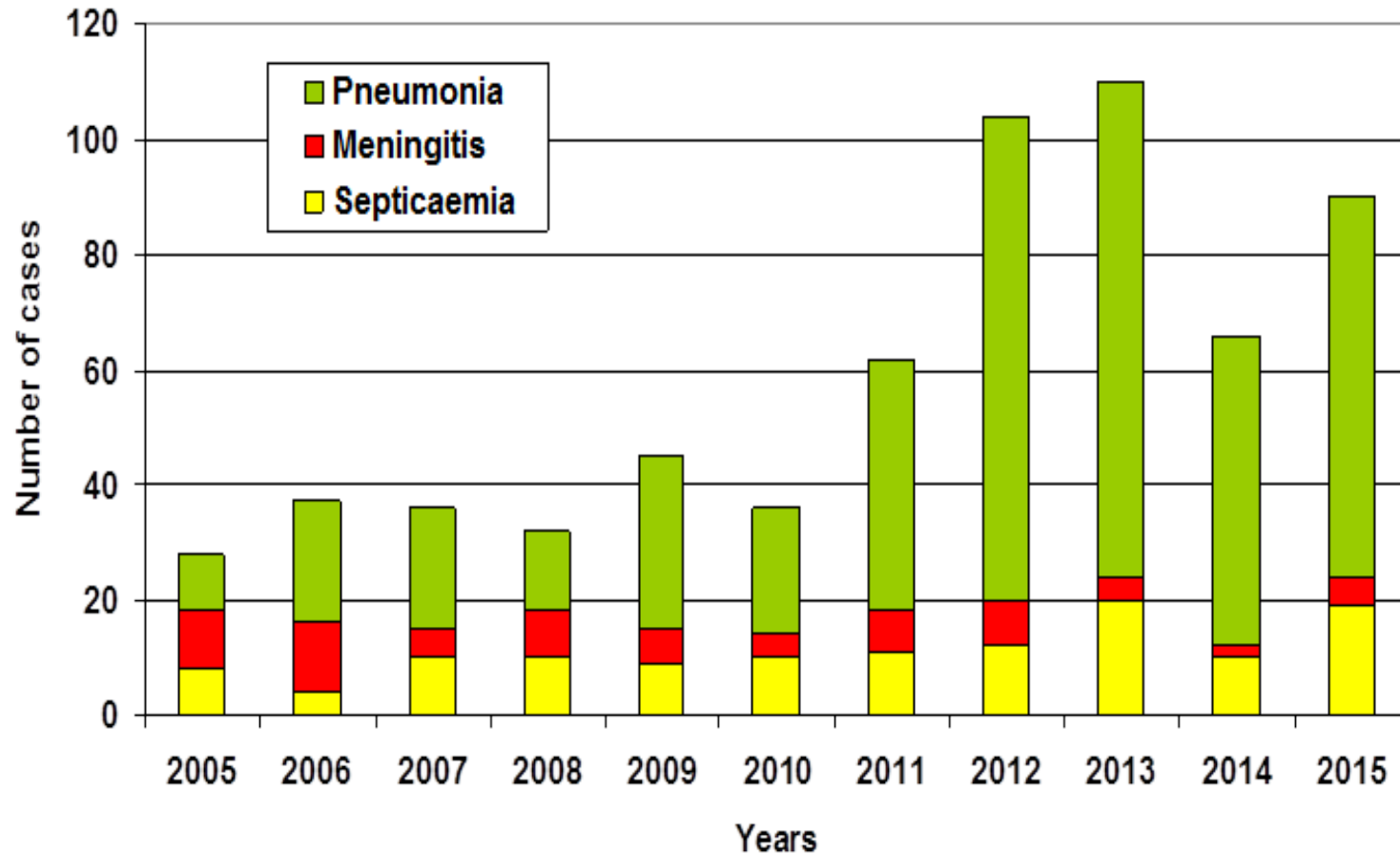
- countrywide
- mandatory
- comprehensive
- routine case-based
- passive
- based on double notification – from GPs/hospitals and laboratories
- in use EU case definitions 2012 and ICD 10 code



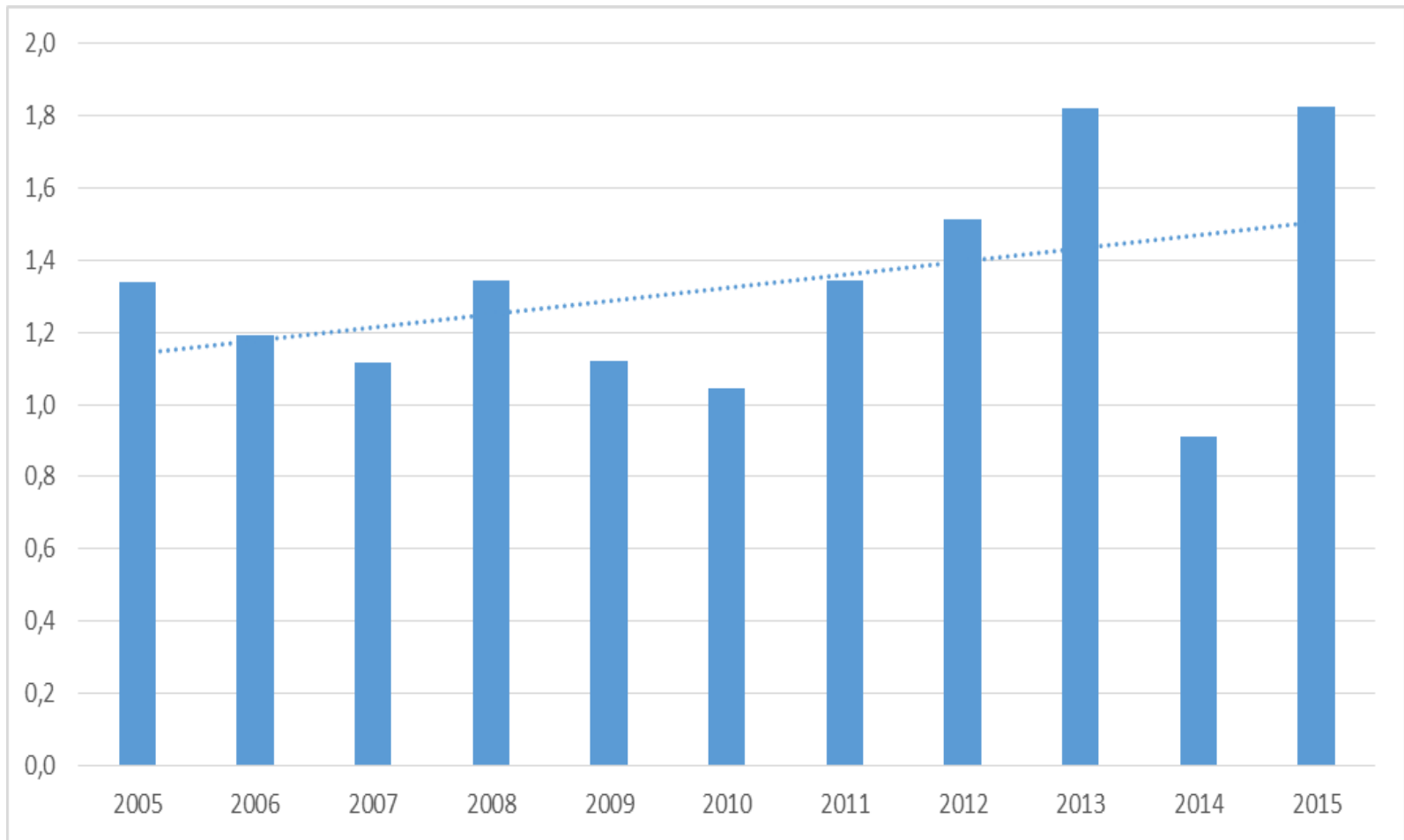
Pneumococcal infection in Estonia, 2005-2015



Distribution of reported cases by clinical presentation, 2005-2015



IPD, notification rate in Estonia, 2005-2015

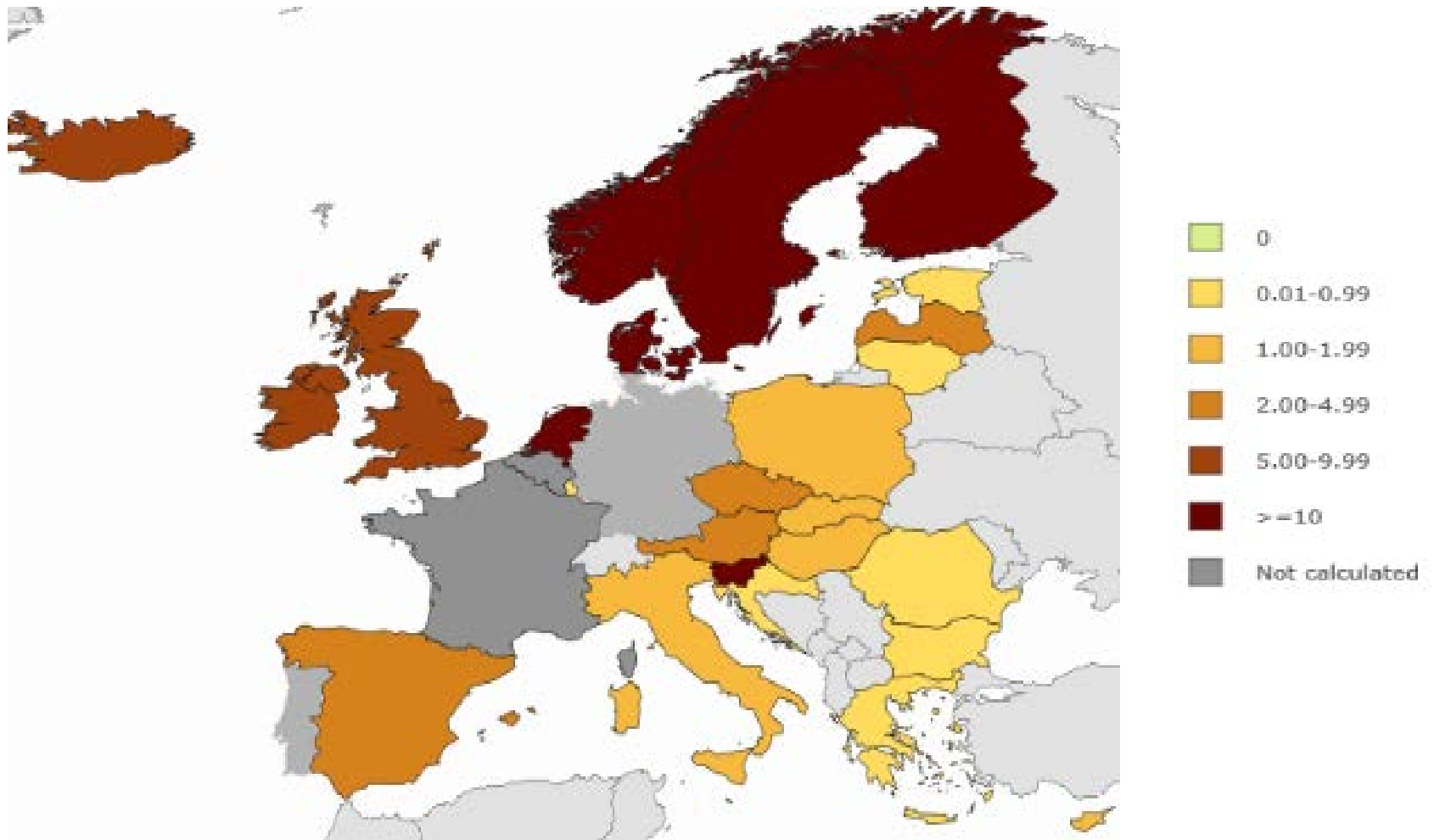


Pneumococcal infection.

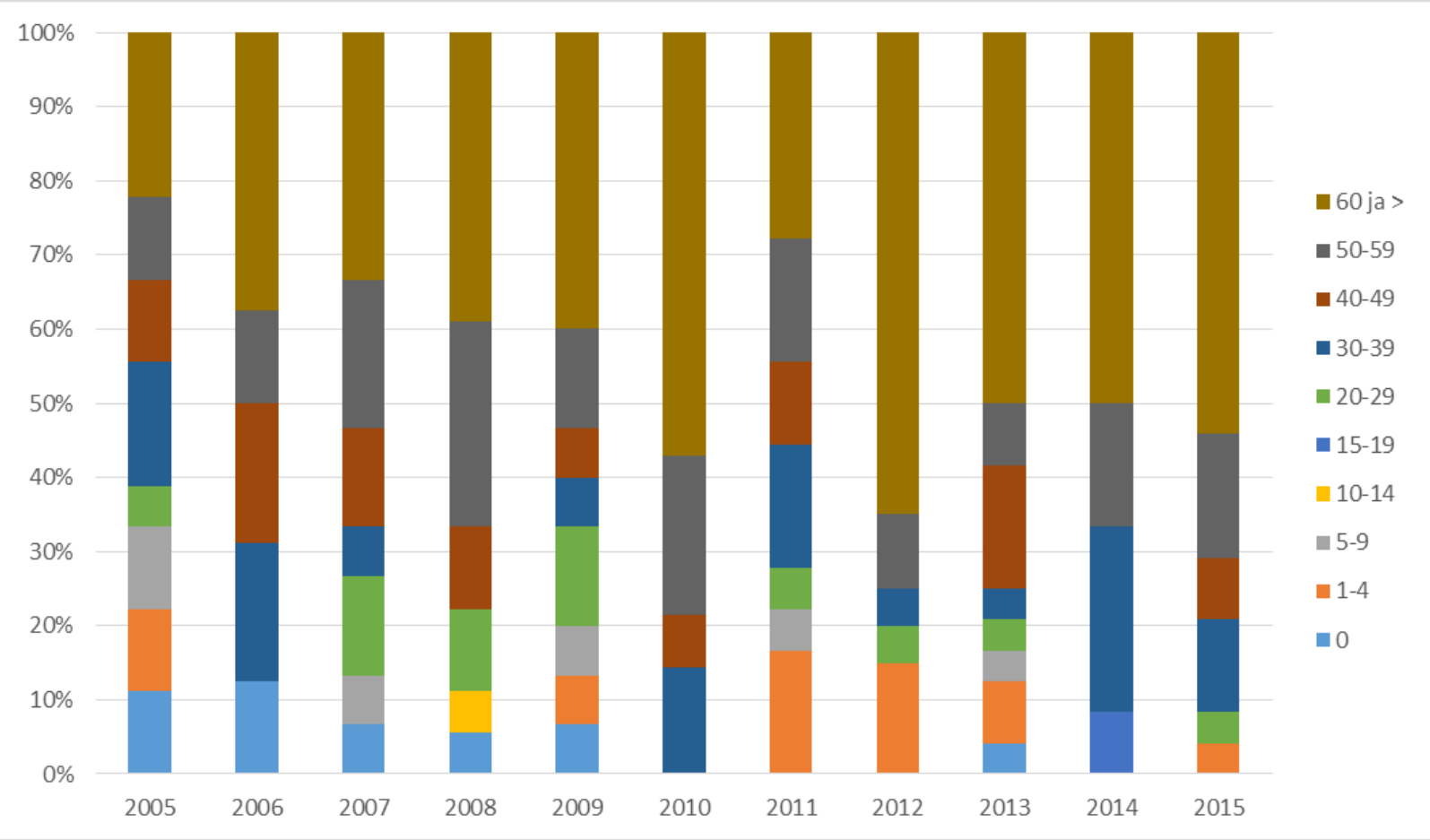
Number of lethal cases, 2005-2015

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Number of cases	2	5	3	4		1	4	6	6	9	8	48
%	7,1	13,5	8,3	12,5	0,0	2,8	6,5	5,8	5,5	13,6	8,9	7,4

IPD, notification rate in EU countries, 2014

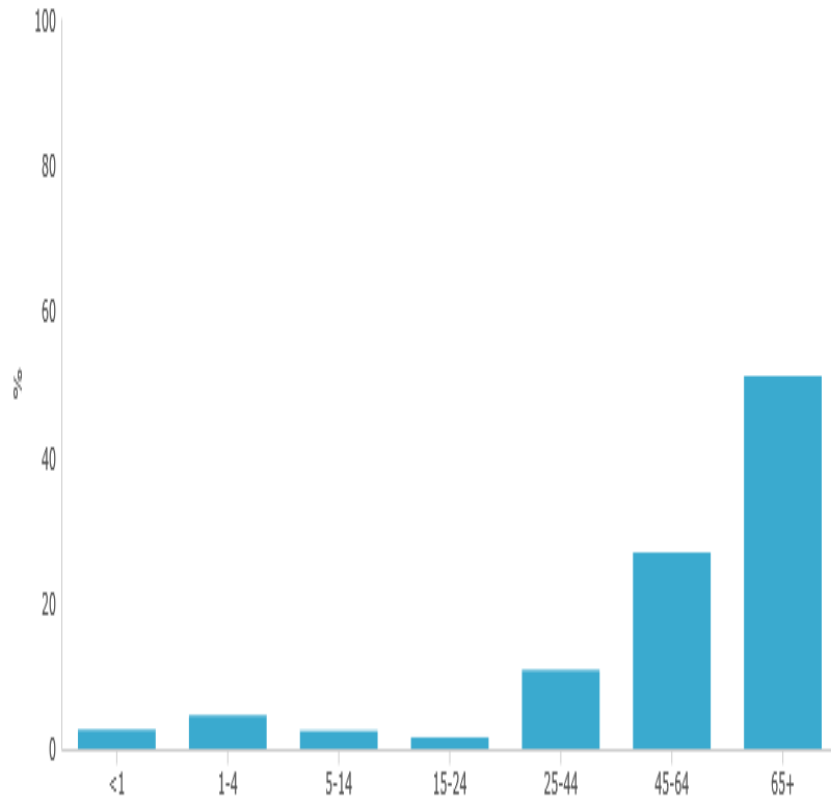


IPD. Distribution by age groups, 2005-2015

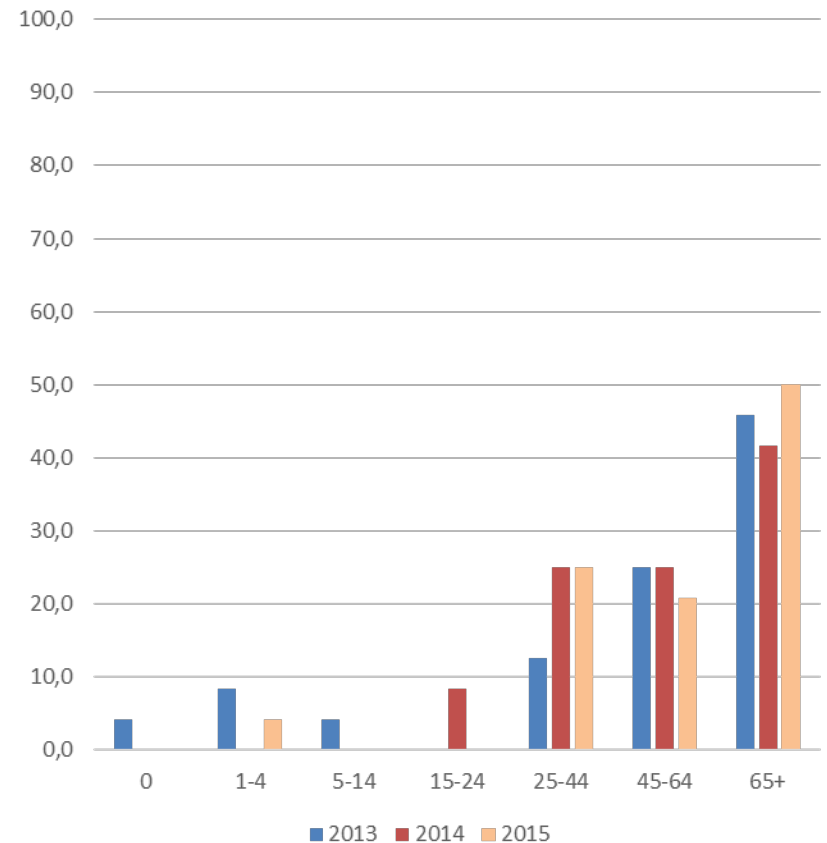


IPD. Distribution by age groups

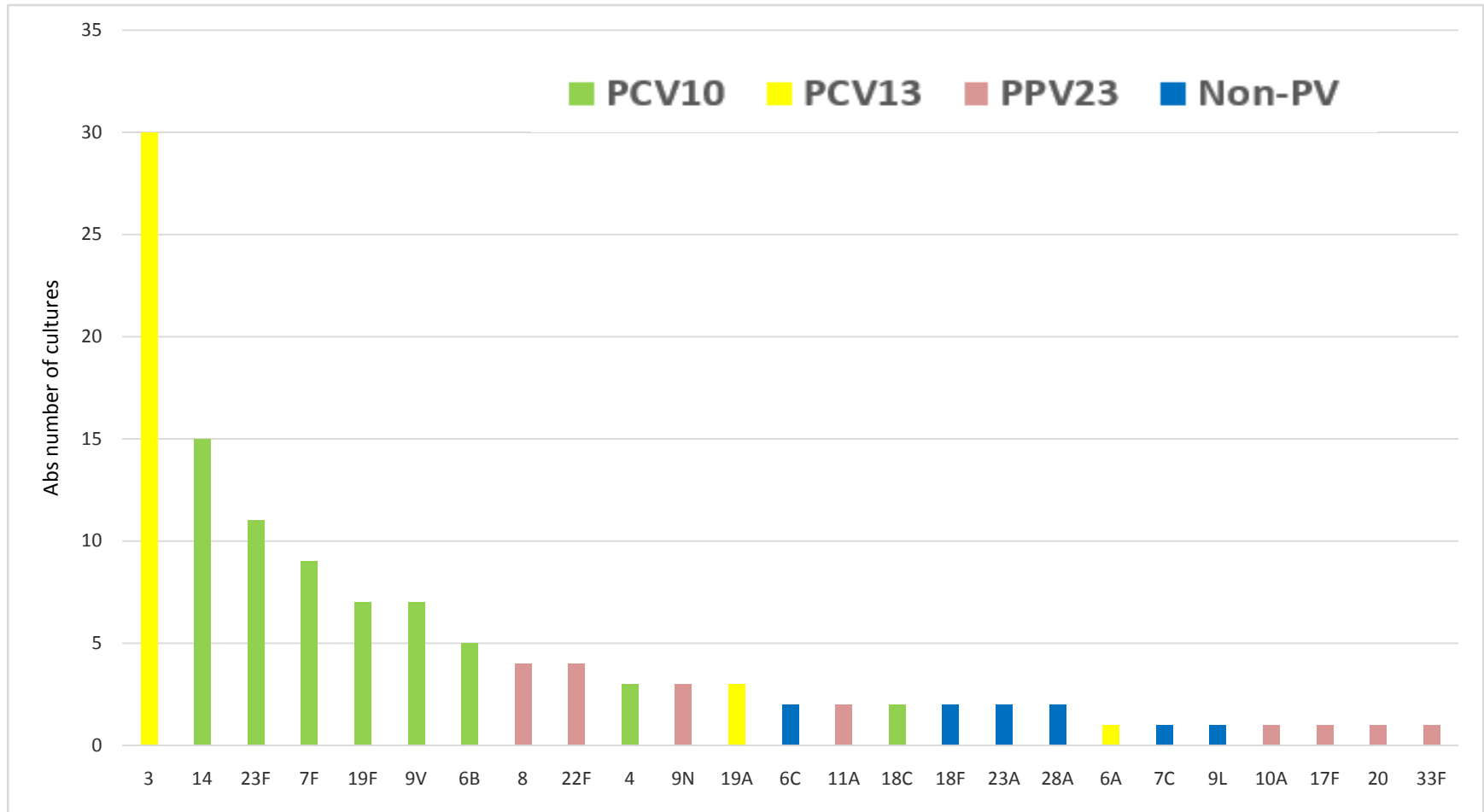
EU, 2014



Estonia, 2013-2015



Distribution of confirmed IPD cases by serotypes, 2013 -2015 (n=120)



Immunization against Pneumococcal infection

(recommendations of the National immunization expert committee)

- Vaccination is not included in the national immunization schedule
- Recommended to persons from risk groups - individuals with a predisposition to pneumococcal infection (asplenia, splenic dysfunction, chronic cardiovascular and respiratory diseases; smoking; chronic liver disease; chronic renal disease; diabetes (except for diet-adjustable); immunocompromised; persons with the cochlear implant etc.)

<http://www.vaktsineeri.ee/vaktsineerimissoovitused.html>

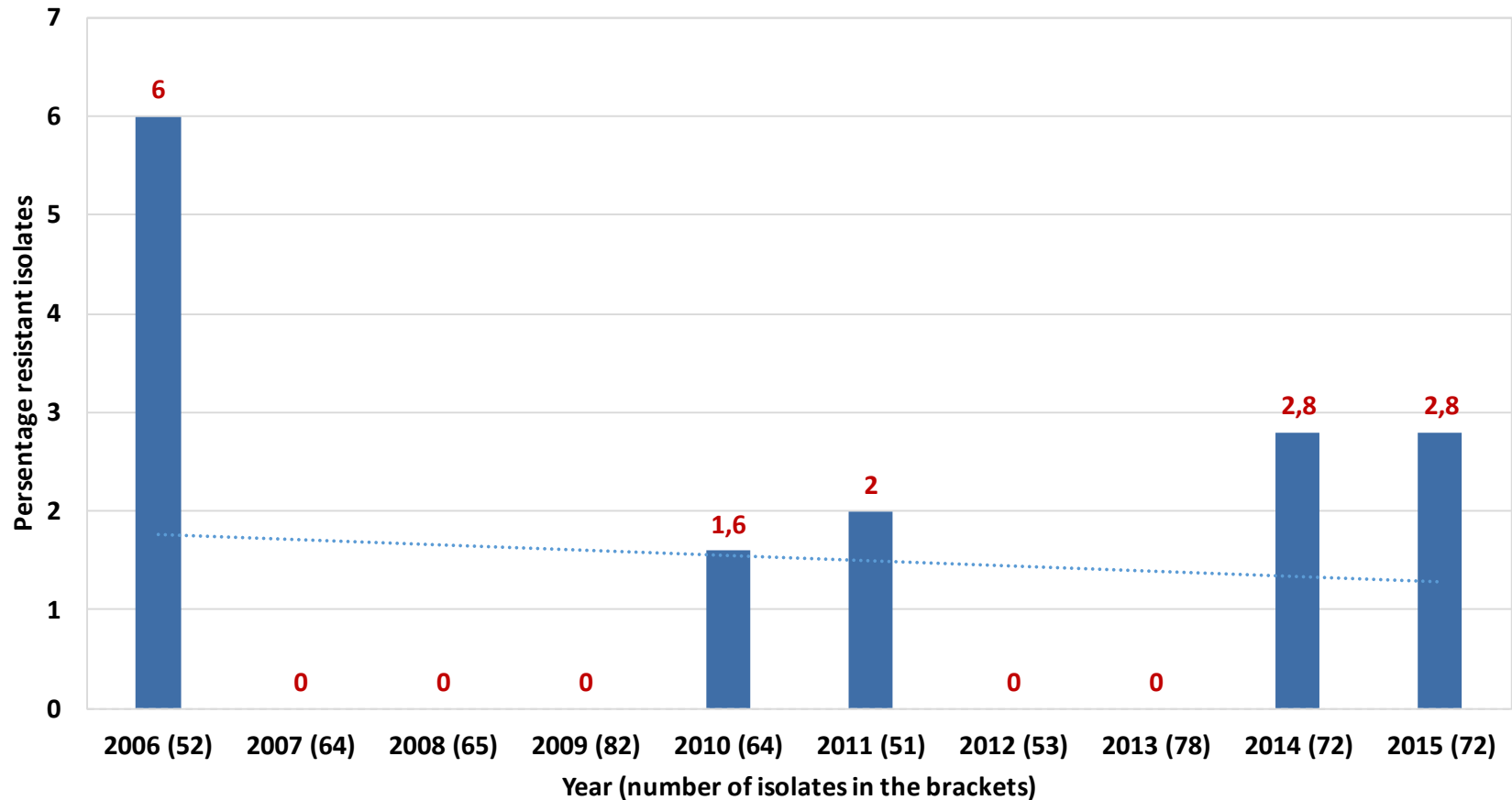


Immunization against pneumococcal infection, 2010 - 2015

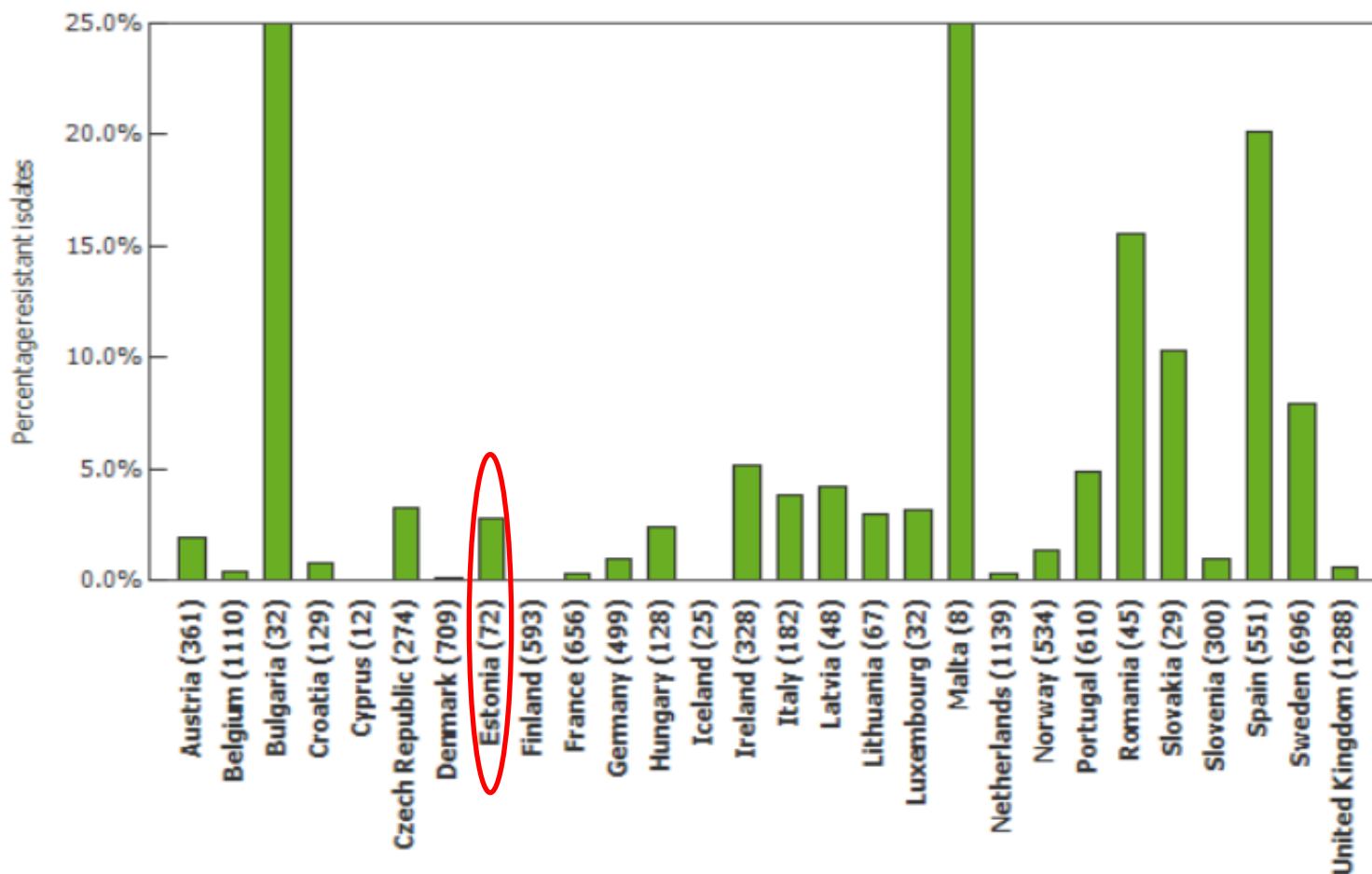
Year	Vaccination				Revaccination			
	0 -14 y.o	15-17 y.o	Adults	All	0 -14 y.o	15-17 y.o	Adults	All
2010	748		83	831	21		10	31
2011	847	9	78	934	44		6	50
2012	828	2	70	900	88	8	55	151
2013	751	7	169	927	63		4	67
2014	705	13	196	914	96	17	57	170
2015	810	8	251	1069	51		13	64



Proportion of Penicillins Resistant *S. pneumoniae* isolates, Estonia, 2006-2015

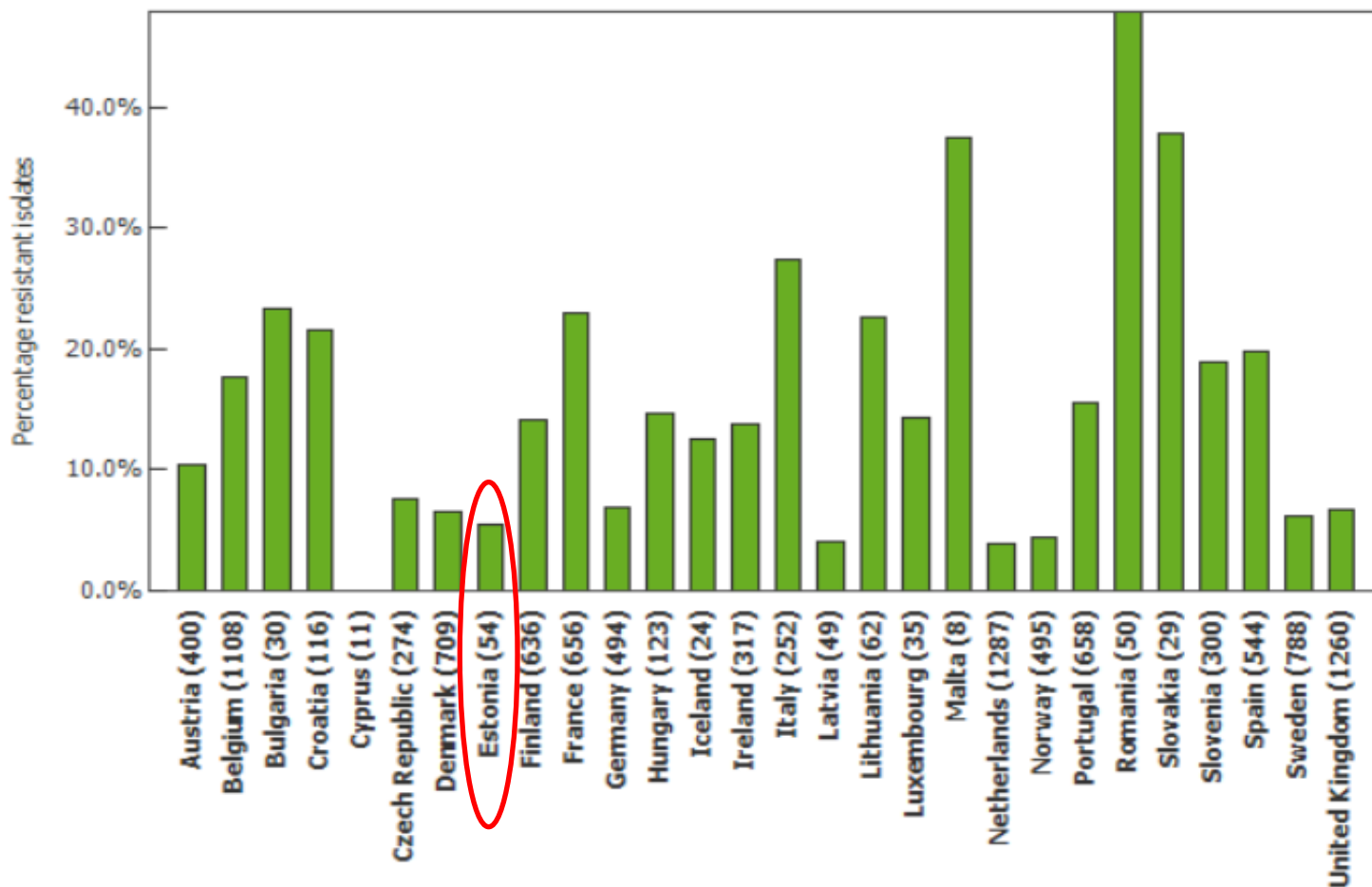


Proportion of Penicillins Resistant (R) *Streptococcus pneumoniae* Isolates in Participating Countries in 2014





Proportion of Macrolides Resistant (R) *Streptococcus pneumoniae* Isolates in Participating Countries in 2014





REPUBLIC OF ESTONIA
HEALTH BOARD

Thank You for Your Attention!

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