#### Supplementary file 2: Country specific RSV surveillance in EU/EEA Member States

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#### Austria

	Sentinel	
Type of health facilities	GPs and Paediatricians	Hospitals (PICU and paediatric
		departments)
Set up	Part of influenza surveillance	Part of influenza surveillance
Period	Week 40-20	Week 40-20
Frequency	Weekly	Weekly
Aggregation level	Case-based	Case-based
Population covered	0-1%	0-1%
Year introduced	2000	2000
Eligible for sampling	ILI/ARI	SARI
Sampling algorithm for RSV	No	No
Information available	Unique patient identifier;Age or	Unique patient identifier;Age or
	date of birth;Sex;Geographical	date of birth;Sex;Geographical
	information;Date of clinical	information;Date of clinical
	onset;Date of sampling;Date of	onset;Date of sampling;Date of
	diagnosis;Clinical	diagnosis;Clinical
	symptoms;Immunosuppressive	symptoms;Immunosuppressive
	medication or condition;Chronic	medication or condition;Chronic
	lung disease;Other pathogens	lung disease;Hospitalization
	detected	
Denominator known		•

Non-sentinel
Labs (notifications)
Part of influenza surveillance
Week 40-20
Weekly
Aggregated
X
2012
No
No
Reporting of aggregated data
No

## Belgium

	Sentinel		Non-sentinel	
Type of health facilities	GPs	Hospital	Labs	Hospitals sent samples to national reference lab for typing
Set up	Part of influenza surveillance	Part of influenza surveillance	Part of other surveillance	Part of other surveillance
Period	Week 40 to 20	Week 40 to 20	All year round	All year round
Frequency	Weekly	Weekly	Weekly	
Aggregation level	Case-based	Case-based	Case-based	Case-based
Population covered			~60 of all microbiological labs	
Year introduced	Season 2015-2016	Season 2015-2016	1996	2013
Eligible for sampling	ILI	SARI	Yes	Yes
Sampling algorithm for RSV				
Information available	Unique patient identifier;Age or date of birth;Sex;Geographical information;Date of clinical onset;Date of sampling;Date of diagnosis;Date of notification to surveillance organisation;Clinical symptoms;Immunosuppressive medication or condition;Chronic lung disease;Other pathogens detected	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of clinical onset; Date of sampling; Date of diagnosis; Date of notification to surveillance organisation; Clinical symptoms; Immunosuppressive medication or condition; Chronic lung disease; Other pathogens detected	Age or date of birth;Sex;Geographical information;Date of diagnosis	Age or date of birth;Sex;Geographical information;Date of diagnosis
Denominator known		,		No, only number of tests done by NRL, not all labs

## Bulgaria

	Sentinel
Type of health facilities	GPs
	Part of influenza
Set up	surveillance
Period	Week 40 to 20
Frequency	Weekly
Aggregation level	aggregated
Population covered	5,3%
Year introduced	2001
Eligible for sampling	ARI
Sampling algorithm for RSV	Yes
Information available	Yes
Denominator known	

Non-sentinel
Hospitals and GPs
Part of influenza surveillance
All year round
Weekly
aggregated
1958
ILI, SARI
No
yes
no

## Croatia

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-sentinel
Labs (All respiratory specimens sent
to National Virus Reference
Laboratory)
Through RSV-related studies
All year
weekly
Case-based
20%
1980
No
No
Age or date of birth;Sex;Geographical
information;Hospitalization
No

# Cyprus

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-se	entinel
Hospit	als (PICU/paediatric departments)
unoffic	cial system that captures most severe
cases	
Part of	influenza surveillance
Week -	40-20
Weekl	y
Case-b	ased
Popula	tion<15 yrs
2015	
No. Le	ft to clinical definition of paediatrician
No	
Unique	e patient identifier;Age or date of
birth;S	ex;Geographical information;Date of
sampli	ng;Clinical symptoms;Hospitalization

## **Czech Republic**

	Sentinel	
Type of health facilities	GP	
Set up	Part of influenza surveillance	
Period	Week 40-20	
Frequency	Weekly	
Aggregation level	Aggregated	
Population covered		
Year introduced	From season 2013/2014 - introduction of	
	PCR for sentinel samples, until then virus	
	isolation and serology were used	
Eligible for sampling	ILI/ARI	
Sampling algorithm for RSV	The same sampling strategy as for flu	
Information available	Unique patient identifier; Age or date of	
	birth; Sex; Geographical information;Date of	
	clinical onset; Date of sampling, Symptoms,	
	Diagnosis	
Denominator known		

No	n-sentinel
Lal	b
Paı	rt of influenza surveillance
We	eek 40-20 or all year around
We	eekly
Ag	gregated
ILI	and ARI
Th	e same sampling strategy as for flu
_	

## Denmark

	Sentinel
Type of health facilities	GPs
Set up	Part of influenza surveillance
Period	Week 40-20
Frequency	Weekly
Aggregation level	Aggregated
Population covered	1-5%
Year introduced	2009
Eligible for sampling	ILI
Sampling algorithm for RSV	No
Information available	Unique patient identifier;Age or date of birth;Sex;Geographical information;Date of clinical onset;Date of sampling; Other: other data can be found in the national registries
Denominator known	

Non-sentir	nel
Labs	
Notificatio	ns through national register
All year ro	und
Weekly	
Aggregated	d
X	
2015	
No	
No	
Unique pat	ient identifier;Age or date
of birth;Sea	x;Geographical
information	n;Date of clinical
	of sampling;Date of
diagnosis;I	Date of notification to
surveillanc	e organisation;Source of
notification	n;Hospitalization;Premature
birth;RSV	related death;Other
pathogens	detected
Yes	

## Estonia

	Sentinel
Type of health facilities	GPs/Polyclinic/family doctor
Set up	Part of influenza surveillance
Period	All year round
Frequency	Weekly
Aggregation level	Aggregated by age group
Population covered	14%
Year introduced	2006
Eligible for sampling	ILI
Sampling algorithm for RSV	No
Information available	
Denominator known	

Non-	sentinel	
Labs		
Othe	surveillanc	e
All y	ear round	
Wee	dy	
Aggı	egated	
X		
1965		
No		
X		
Yes		

## Finland

	Sentinel
Type of health facilities	GPs
Set up	Part of influenza surveillance
Period	All year round
Frequency	Weekly
Aggregation level	Aggregated
Population covered	
Year introduced	2005
Eligible for sampling	No
Sampling algorithm for RSV	No
Information available	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of clinical onset; Date of sampling; Immunosuppressive medication or condition; Chronic lung disease; Hospitalization; Other pathogens detected
<b>Denominator known</b>	

Non-se	entinel
Hospitals (ICUs)	Labs
Part of influenza surveillance	Part of other surveillance
All year round	All year round
Weekly	
Aggregated	
2013	1995
No	No
Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of clinical onset; Date of sampling; Immunosuppressive medication or condition; Chronic lung disease; Hospitalization; Other pathogens detected	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of sampling; Date of notification to surveillance organisation; Source of notification
No	No

## France

	Sentinel	
Type of health facilities	Hospital labs (Renal)	GPs
Set up	Part of other surveillance	Part of other surveillance
Period	Week 40 to 20	Week 40 to 20
Frequency	Weekly	Weekly
Aggregation level	Aggregated	Aggregated
Population covered	All ages	All ages
Year introduced		
Eligible for sampling	ARI	ILI
		The same sampling strategy as for
Sampling algorithm for RSV		flu
Information available	Number of samples	
	positive for RSV	
Denominator known		

Non-sentinel
Emergency medical visits (home (SOS Médecins)
and in hospital (OSCOUR©)
Syndromic surveillance
Week 40 to 20
Weekly
Aggregated
Infants ≤ 2 years
2009
Bronchiolitis in emergency visits and hospitalization
for clinical bronchiolitis
X
Age;Sex;Geographical information:
region;Hospitalization
No

## Germany

	Sentinel	
Type of health facilities	GPs	
Set up	Part of influenza surveillance	
Period	All year	
Frequency	Weekly	
Aggregation level	Case-based	
Population covered	0-1%	
Year introduced	2010	
Eligible for sampling	ILI/ARI	
Sampling algorithm for RSV	No	
Information available	Age or date of birth;Sex;Geographical information; Date of clinical onset; Date of sampling; Date of diagnosis; Clinical symptoms; Immunosuppressive medication or condition; Chronic lung disease	
Denominator known		

Non-sentinel
Other
Through RSV-related studies
No

## Greece

	Sentinel	Non-sentinel
Type of health facilities	None	Labs
Set up		Part of other surveillance
Period		All year round
Frequency		
Aggregation level		
Population covered		
Year introduced		
Eligible for sampling		
Sampling algorithm for RSV		
Information available		Unique patient identifier;
		Age or date of birth; Sex;
		Date of sampling;Date of
		diagnosis; Hospitalization
		time; RSV genotype
		Yes: The total number of
Denominator known		samples tested for RSV

## Hungary

	Sentinel
Type of health facilities	GPs, Paediatric practice
Set up	Part of influenza surveillance
Period	week 40 to 20
Frequency	weekly
Aggregation level	Case-based
Population covered	>20%
Year introduced	2005
Eligible for sampling	Yes
Sampling algorithm for RSV	ILI
Information available	Yes
Denominator known	

Non-sentinel
Hospitals
Part of influenza surveillance between 40-20 weeks
All year round
Weekly
Case-based
2005
Yes
SARI
Yes
No

## **Iceland**

icciana	
	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-sentinel	
GPs/hospitals	Labs
Part of other surveillance	Part of other surveillance
All year round	All year round
weekly	weekly
case-based	case-based
2011	2011
ICD-10	Testing based on clinical judgement
No	No
Unique patient	
identifier; Age or date of	
birth;Sex;Geographical	
information;Date of	
sampling;Date of	Age or date of birth;Sex;Geographical
notification to surveillance	information;Date of sampling;Date of
organisation;Source of	notification to surveillance
notification	organisation;Source of notification
No	Yes

## Ireland

	Sentinel	Non-sentinel	
Type of health facilities	GPs	Labs (All respiratory specimens sent to National Virus Reference Laboratory)	Notification system (all RSV detections, including outbreaks)
Set up	Part of influenza surveillance	Part of influenza surveillance	Specifically for RSV
Period	All year	All year	All year
Frequency	Weekly	Weekly	Weekly
Aggregation level	Case-based	Case-based	Case-based
Population covered	6%	X	x
Year introduced	2000	2000	2012
Eligible for sampling	ILI	No	Yes
Sampling algorithm for RSV	No	No	No
Information available	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of clinical onset; Date of sampling; Date of notification to surveillance organisation; Source of notification; Other pathogens detected; Other: influenza vaccination status, date of influenza vaccination, exposure to antivirals, is the patient in a risk group for flu. All sentinel specimens are tested for influenza, RSV, parainfluenza viruses 1-4, human metapneumovirus and adeno viruses	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of sampling; Date of notification to surveillance organisation; Source of notification; Other pathogens detected	Unique patient identifier;Age or date of birth;Sex;Geographical information;Date of clinical onset;Date of sampling;Date of diagnosis;Date of notification to surveillance organisation;Source of notification
Denominator known	The second secon	Yes	Irish population

# Italy

	Sentinel	Non-sentinel
Type of health facilities	None	None
Set up		
Period		
Frequency		
Aggregation level		
Population covered		
Year introduced		
Eligible for sampling		
Sampling algorithm for RSV		
Information available		
Denominator known		

## Latvia

	Sentinel	Non-sentinel
Type of health facilities	GPs/family doctor	Hospitals
Set up	Part of influenza surveillance	Part of other surveillan
Period	Week 40-20	All year round
Frequency	Weekly	Weekly
Aggregation level	Case-based	Aggregated
Population covered	0-1%	X
Year introduced	2011	1993
Eligible for sampling	ILI	Testing based on clinic judgement
Sampling algorithm for RSV	No	No
Information available	Unique patient identifier; Age or date of birth; Sex;; Date of clinical onset; Clinical symptoms; Diagnosis; Date of sampling; Source of notification; Other pathogens detected; Influenza vaccination status; Date of influenza vaccination; Exposure to antivirals	Unique patient identific or date of birth;Sex;Da clinical onset;Date of sampling
Denominator known		No

Non-sentinel
Hospitals
Part of other surveillance
All year round
Weekly
Aggregated
x
1993
Testing based on clinical
judgement
No
Unique patient identifier;Age
or date of birth;Sex;Date of
clinical onset;Date of
sampling
No

## Lithuania

	Sentinel	Non-sentinel
Type of health facilities	None	None
Set up		
Period		
Frequency		
Aggregation level		
Population covered		
Year introduced		
Eligible for sampling		
Sampling algorithm for RSV		
Information available		
Denominator known		

## Luxembourg

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-sen	tinel	
None		

## Malta

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for	
RSV	
Information available	
Denominator known	

Non-sentin	el
Hospital lab	os
Part of influ	ienza surveillance
All year rou	ınd
Weekly	
Case-based	
2013	
ILI	
Unique pati	ent identifier;Sex;Date of
sampling;D	ate of diagnosis

## The Netherlands

	Sentinel
Type of health facilities	GPs
Set up	Part of influenza surveillance
Period	All year round
Frequency	Weekly
Aggregation level	Case-based
Population covered	0-1%
Year introduced	1992
Eligible for sampling	ILI and ARI
Sampling algorithm for RSV	No
Information available	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of clinical onset; Date of sampling; Date of diagnosis; Date of notification to surveillance organisation; Source of notification; Clinical symptoms; Immunosuppressive medication or condition; Chronic lung disease; Other pathogens detected
Denominator known	

Non-	sentinel
Labs	Hospitals
Notifications	Network of PICUs
	including lab report*
All year round	Week 40 to 20
Weekly	Weekly
Aggregated	Aggregated
~80%	X
1964	2016
No	No
X	X
Date of diagnosis;Date of notification to surveillance organisation;Source of notification (which lab)	Hospitalization;Other pathogens detected;Other week of admission to PICU, four age categories for SARI patients
No	No

Note: this surveillance has only be operational during season 2016-2017

## Norway

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-	sentinel
Labs	
part c	f other surveillance
All y	ear round
Mont	nly
Aggr	egated
1969	
No	
No	
No	

## **Poland**

	Sentinel
Type of health facilities	GPs
Set up	Part of influenza sentinel surveillance
Period	All year round
Frequency	Weekly
Aggregation level	Case-based
Population covered	1-5%
Year introduced	2004
Eligible for sampling	ILI
Sampling algorithm for RSV	Do not know
Information available	Age or date of birth;Geographical information;Date of notification to surveillance organisation
Denominator known	

Non-sentinel	
Hospitals	Labs
Part of influenza surveillance	Part of influenza surveillance
All year round	All year round
Weekly	Weekly
Case-based	Case-based
X	x
2004	2004
Do not know	Do not know
X	x
Age or date of birth;Geographical information;Date of notification to surveillance organisation	Geographical information;Date of notification to surveillance organisation
Do not know	Do not know

## Portugal

	Sentinel
Type of health facilities	GPs and emergency units
Set up	Part of influenza surveillance
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	Influenza negative cases
Sampling algorithm for RSV	
Information available	
Denominator known	
Denominator Known	

Non-se	entinel
Hospit	al labs
Part of	influenza surveillance
Week	40-20
Weekl	y
Case-b	ased
X	
2010	
ILI/AF	XI
No	
Age or	date of birth;Sex; Geographical
inform	ation;Date of sampling; Date of
notific	ation to surveillance organisation;
Source	of notification; Hospitalization;
Other 1	pathogens detected; Death
Yes: T	he actual denominator is the total
numbe	r of samples tested for influenza. It
will be	possible to have a more accurate

number of samples tested only for RSV, only for influenza and tested for both

viruses.

#### Romania

	Sentinel*
Type of health facilities	
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
<b>Denominator known</b>	

nospitals (100) paediatife department and infectious disease was	uj
Part of influenza surveillance	
Week 40-20	
Weekly	
Case-based	
K	
2010	
SARI, negative for influenza (sporadically)	
No	
Unique patient identifier; Age or date of birth; Sex; Geographical	
nformation;Date of clinical onset;Date of sampling;Date of	
liagnosis;Source of notification;Hospitalization	
No	

Hospitals (ICU/paediatric department and infectious disease ward)

Non-sentinel

<sup>\*</sup>sentinel surveillance between 2010/2011 and 2013/2014

## Spain

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-sentinel
Labs
RSV detections. It was set up as a complementary system of Influenza surveillance
Week 40-20
Weekly
Aggregated
Not known
2006
No
No
Weekly RSV detections
Total number of samples tested for viral diagnostic purposes

## Slovakia

	Sentinel	
Type of health facilities	GPs/paediatric practice	Hospital (ICU)
Set up	Part of influenza surveillance	Part of influenza surveillance
Period	All year round	All year round
Frequency	Weekly	Weekly
Aggregation level	Case-based	Case-based
Population covered	not known	100%
Year introduced	2002	2006
Eligible for sampling	No	No
Sampling algorithm for RSV	No	No
Information available	Yes	Yes
Denominator known		•

Non-sentinel
None

#### Slovenia

	Sentinel
Type of health facilities	Paediatricians, School doctors and
	General Practitioners
Set up	Part of influenza surveillance
Period	All year round
Frequency	Weekly
Aggregation level	Case-based
Population covered	4%
Year introduced	1999
Eligible for sampling	ILI
Sampling algorithm for RSV	No
Information available	Patient specific data: age, gender, place of residence, onset, date of specimen taken, influenza vaccination status, clinical symptoms
Denominator known	

Non-sentinel	
Labs	
Specifically for RSV	
All year round	
Weekly	
Aggregated	
100%	
2006	
ARI	
No	
Geographical informa	ation;Source of notification;
Aggregated data are i	reported on weekly basis with no
exact date of samplin	g or clinical onset.
Yes	

## Sweden

	Sentinel
Type of health facilities	None
Set up	
Period	
Frequency	
Aggregation level	
Population covered	
Year introduced	
Eligible for sampling	
Sampling algorithm for RSV	
Information available	
Denominator known	

Non-sentinel	
Labs and paediatric clinics	Hospital (ICU excluding NICU)
Part of influenza surveillance	Other surveillance
Week 40 to 20	All year round
Weekly	Weekly
Case-based	Aggregated
Total population	Total population
1999	2008
No	No
X	Unknown
Age or date of birth;Sex;Geographical	
information;Date of diagnosis;Date of	
notification to surveillance	
organisation;Source of	Aggregated reports by age group, gender, reporting
notification;Other: Info from of ICU of	ICU, geographic region, primary vs other diagnosis
RSV cases	of RS pneumonia, type of treatment, and other data.
Yes	Yes

## **United Kingdom**

	Sentinel
Type of health facilities	GPs
Set up	Part of influenza surveillance
Period	Week 40 to week 20
Frequency	Weekly
Aggregation level	Aggregated
Population covered	0-1%
Year introduced	2000
Eligible for sampling	No
Sampling algorithm for RSV	A random sample of including young children (<5 years) presenting with acute bronchitis/bronchiolitis (up to a maximum of 5 per week).
Information available	Unique patient identifier; Age or date of birth; Sex; Geographical information; Date of clinical onset; Date of sampling; Date of diagnosis; Date of notification to surveillance organisation; Source of notification; Clinical symptoms; Other pathogens detected
Denominator known	

	sentinel
Lab a	and Hospitals (all hospital testing)
Part o	of other surveillance
All y	ear round
Weel	kly
Aggr	egated
2007	
No	
Age	or date of birth;Sex;Geographical
_	matian. Data of samulina. Data of
infor	mation;Date of sampling;Date of nosis;Date of notification to surveillance