

Coping with a measles outbreak in Brussels

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Global Context

▶ In Europe

- ▶ 2018 : 12 352 cases reported (France, Italy, Greece, Romania, ...)
- ▶ 2017 : 14 600 cases

▶ Outside EU

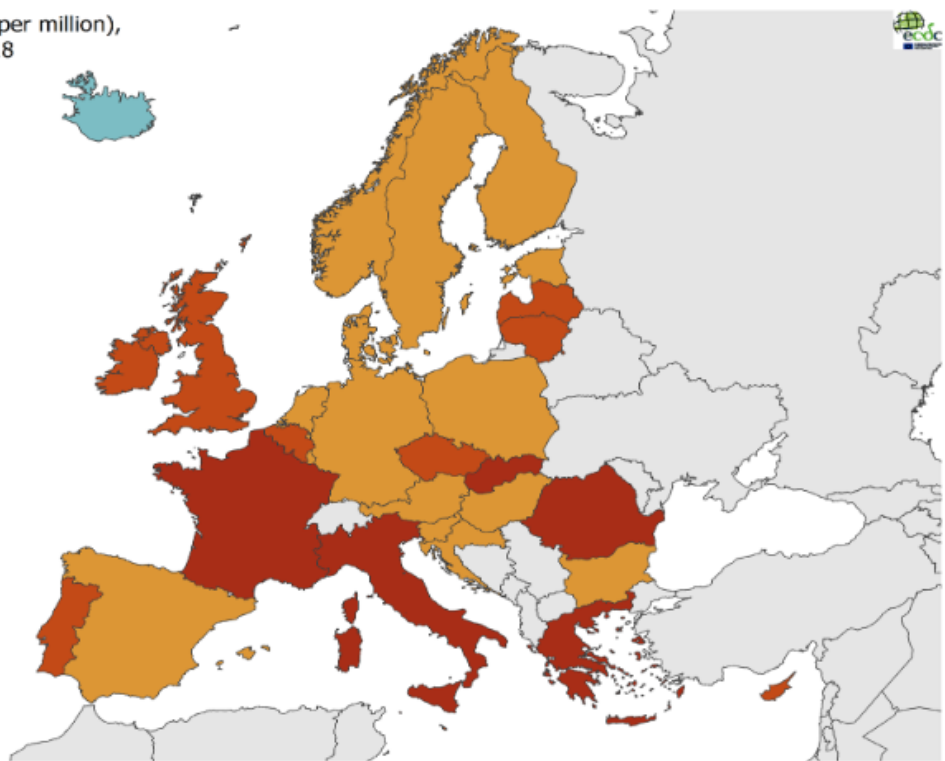
- ▶ Algeria, Belarus, Israel, Mauritius, Serbia, Ukraine, USA, ...
- ▶ “Ukraine is experiencing the continuation of the largest outbreak, with over 54000 cases reported in 2018, including 16 deaths, and over 2000 cases, including one death, reported at the start of 2019.”

Figure 2. Measles notification rate per million population by country, EU/EEA, 1 January 2018 to 31 December 2018

Notification rate of measles (per million),
January 2018–December 2018

- 0
- 0.01–0.99
- 1.00–9.99
- 10.00–19.99
- ≥20.00
- Not included

- Luxembourg
- Malta



Produced 06 Feb 2019 using ECDC map maker: <https://emma.ecdc.europa.eu>

Belgian Context

- ▶ Endemic measles transmission
- ▶ 2018
 - ▶ 117 cases
 - ▶ Incidence : 8,7 cases / 1.000.000 inhabitants
- ▶ 2017
 - ▶ 367 cases
 - ▶ Outbreak in Wallonia
 - ▶ Eurosurveillance « Ongoing measles outbreak in Wallonia, Belgium, December 2016 to March 2017: characteristics and challenges »

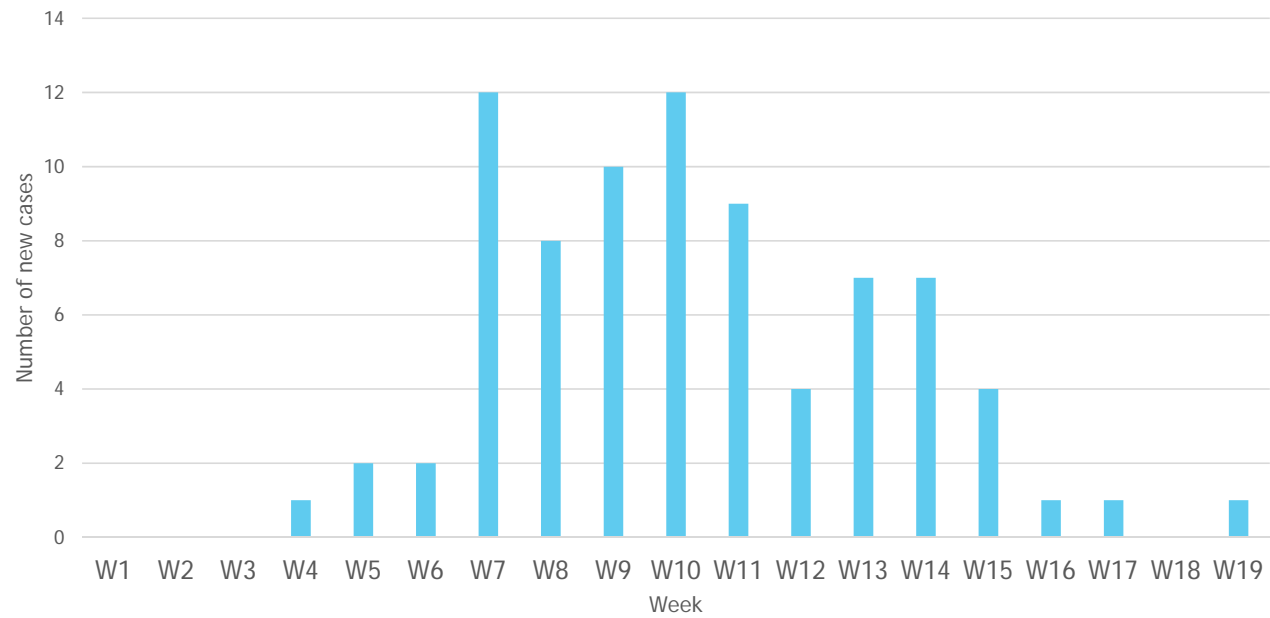


Measles (Brussels)	2018	2017	2016
Confirmed Cases	13	25	33
Discarded Cases	37	73	11

The Outbreak

- ▶ 25/01/2019 : 1st case notified by a GP
 - ▶ From Georgia
 - ▶ In Belgium to visit his relatives
- ▶ 29/01/2019 : 2 cases in the same school
- ▶ 04/02/2019 : 1 case in the same neighborhood
- ▶ 05/02/2019 : 1 case from Ukraine
- ▶ 11/02/2019 : 1 other case from Ukraine
- ▶ 13/02/2019 : 5 notifications
- ▶ ...

The Outbreak



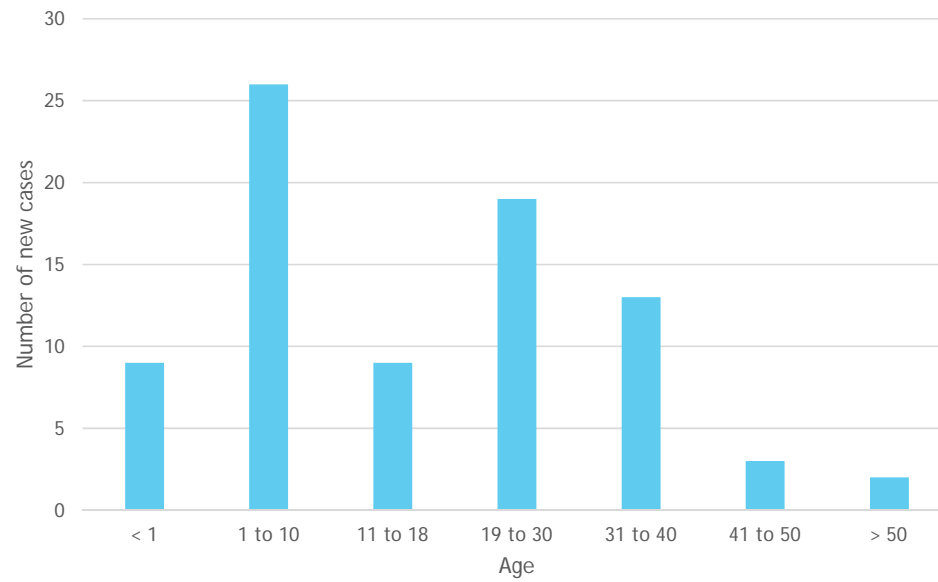
Confirmed cases by week of notification, foreigners included
Preliminary data

The Outbreak

- ▶ Up to now
- ▶ 81 cases
 - ▶ 54 PCR+
 - ▶ Swab available quickly
 - ▶ Sent to the GP or the patient
 - ▶ 19 IgM+
 - ▶ 7 epidemiological link
 - ▶ 1 unknown



The Outbreak



The Outbreak

- ▶ 1 to 10
- ▶ Should be vaccinated
 - ▶ 26 cases (32,1%)
 - ▶ One dose : 11
 - ▶ No record of vaccination : 11
 - ▶ Unknown status : 4



Guidelines

- ▶ Contact tracing
- ▶ Source investigation
- ▶ Isolation of the cases
- ▶ Post-exposure vaccination
- ▶ Collaboration
 - ▶ GPs, pediatricians, infectious diseases specialists, laboratories
 - ▶ Sciensano, AViQ, Z&G, ONE, K&G, ...

Discussion

- ▶ WHO Elimination Plan : Elimination by 2020



**World Health
Organization**

- ▶ Joint statement by all ministers of health


Déclaration commune concernant le « Plan d'action pour l'élimination de la rougeole et de la rubéole pour la période 2016-2020 » en renouvellement du « Plan d'action 2012-2015. Mise à jour mai 2013 » existant.

Gemeenschappelijke verklaring inzake het "Actieplan voor de eliminatie van mazelen en rubella in België voor de periode van 2016-2020" als hernieuwing van het bestaande "Actieplan 2012-2015. Bijwerking tot mei 2013".

- ▶ Continuous efforts to increase the vaccination coverage

Thank you for your attention !
Any question ?



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- ▶ Elimination refers to the reduction to zero (or a very low defined target rate) of new cases in a defined geographical area.
 - ▶ Eradication refers to the complete and permanent worldwide reduction to zero new cases of the disease through deliberate efforts.