



# CONGENITAL CMV INFECTION IN FRANCE: THE BURDEN OF SEVERE CASES IN THE ABSENCE OF SYSTEMATIC SCREENING.

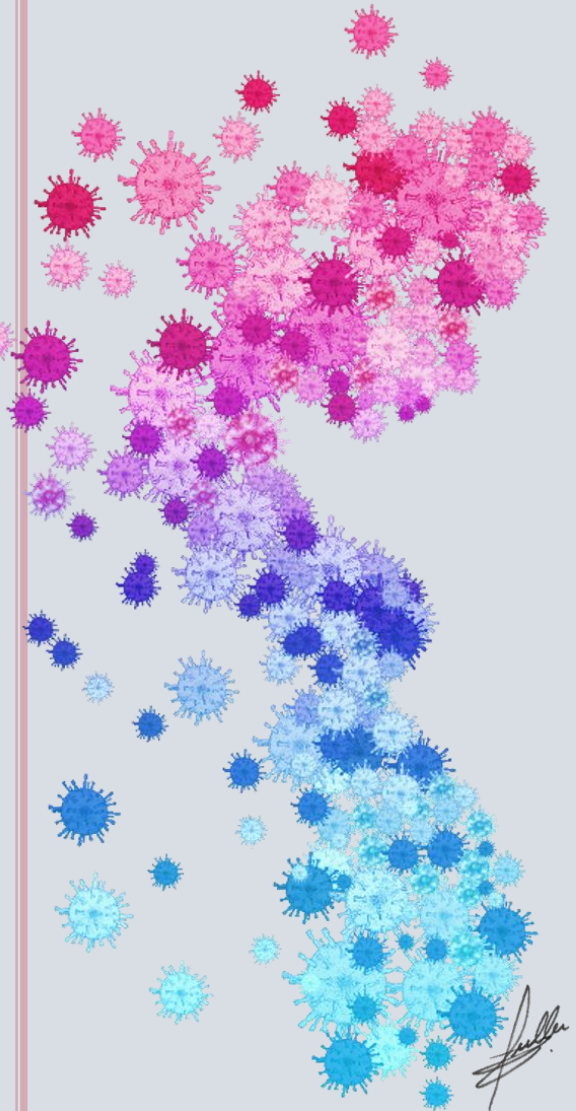
UPDATE FROM THE FRENCH “CONGENITAL CMV DECLARATION PLATFORM” OF THE NATIONAL REFERENCE CENTER FOR HERPESVIRUSES

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# INTRODUCTION



Availability of  
**valaciclovir**  
treatment for  
primary maternal  
CMV infection



Absence of  
**universal**  
**screening** for  
maternal CMV  
infection



# OBJECTIVES

**To analyse the burden of severe congenital CMV (cCMV):**

- the number of mothers eligible for preventive treatment
- the number of effective maternal treatment



with focus on severe cCMV cases

*Severe:*

- *profound unilateral deafness or chorioretinitis.*
- *neurological signs: bilateral deafness, microcephaly, tone disorder, white matter abnormalities, ventriculomegaly...*

# METHODS

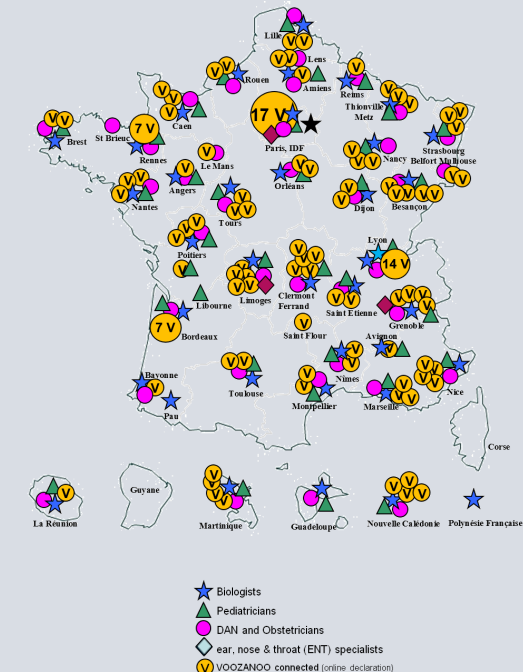
## ○ cCMV database of the French National Reference Center for Herpesviruses :



## ○ Network:

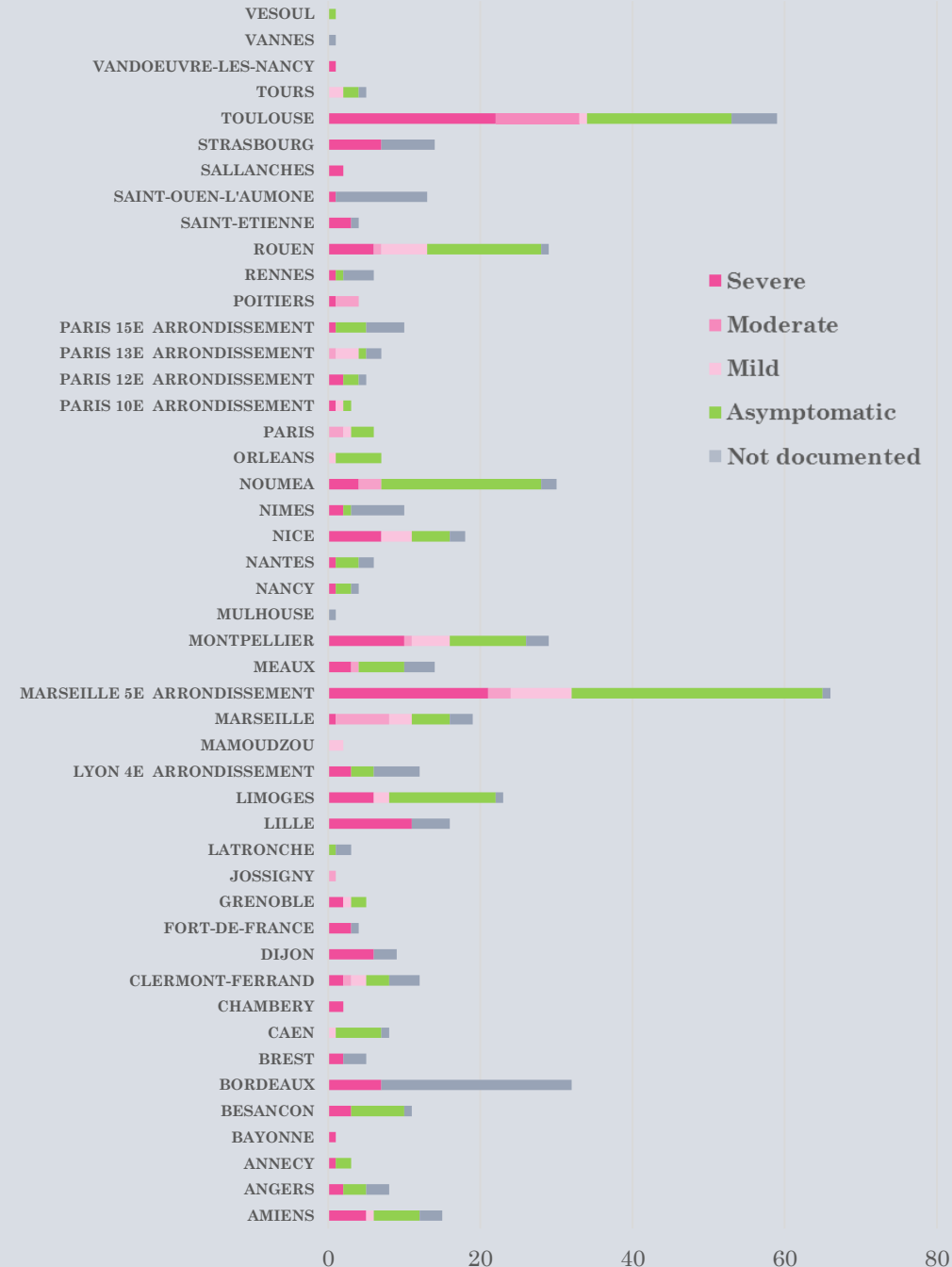
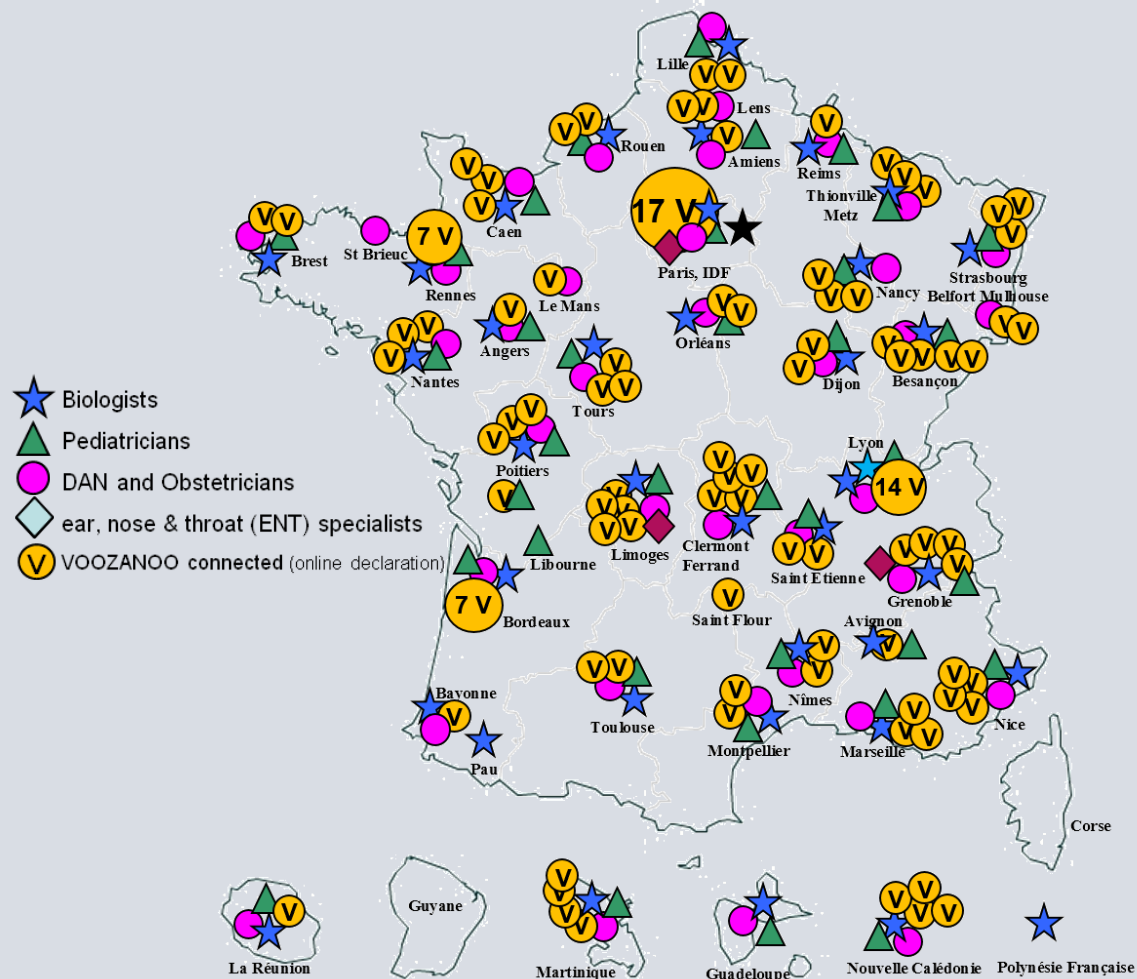
- 43 metropolitans
- several overseas regions (covering quite all the French territory)
  - ✓ 54 prenatal diagnosis centers and obstetricians,
  - ✓ 52 virology laboratories,
  - ✓ 61 neonatal pediatric,
  - ✓ 3 oto-rhino-laryngologist pediatrics.

 **1500 cCMV cases**



# RESULTS

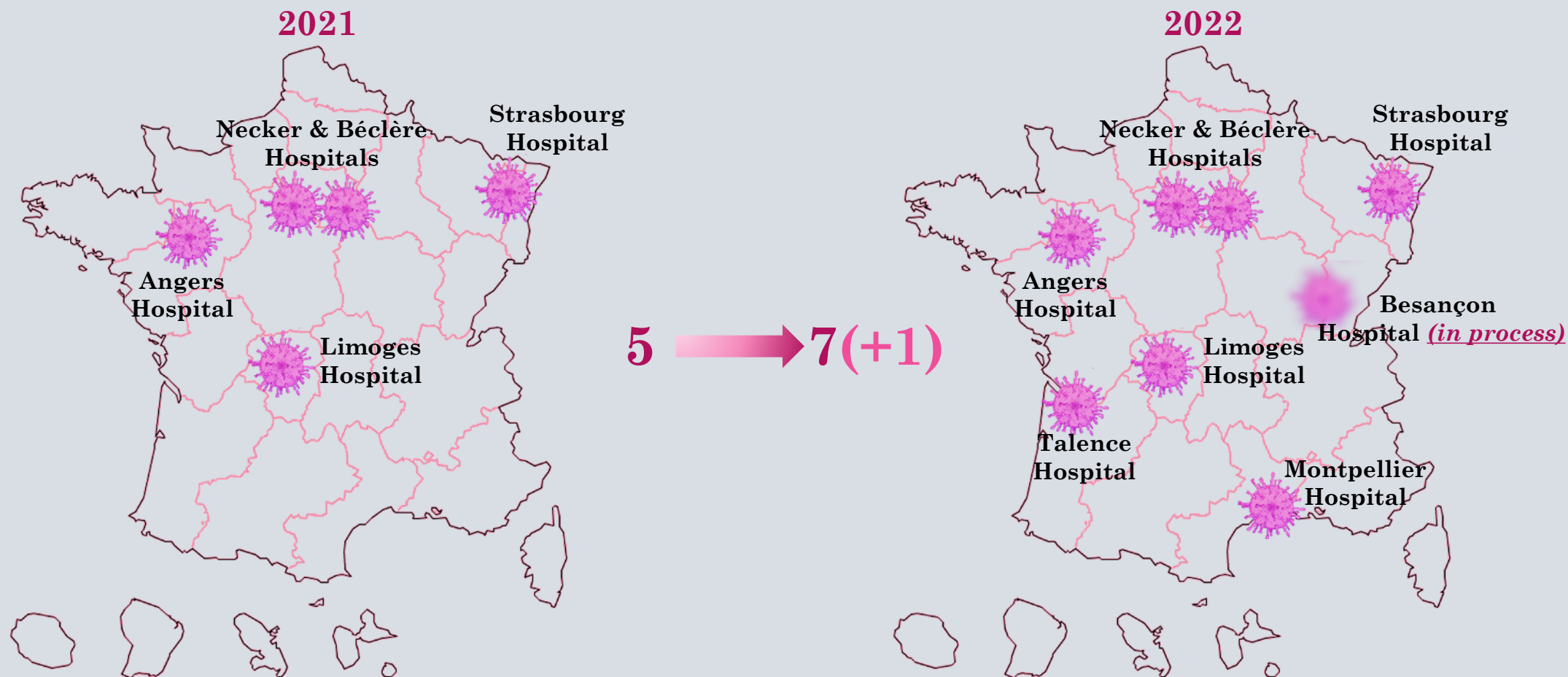
○ The number of declarations is not exhaustive

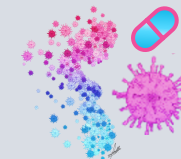




# RESULTS

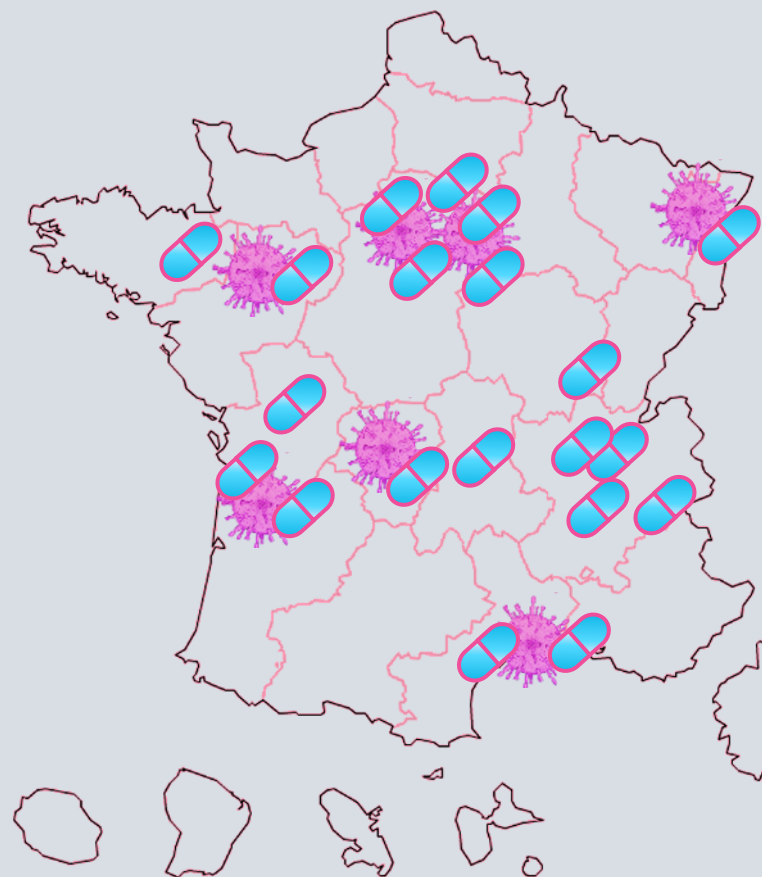
- Status of maternal CMV systematic screening in 2021 and 2022 in France (before 12wg)





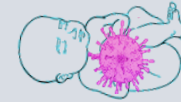
# RESULTS

- 20 centers treating all early maternal infection before 12wg

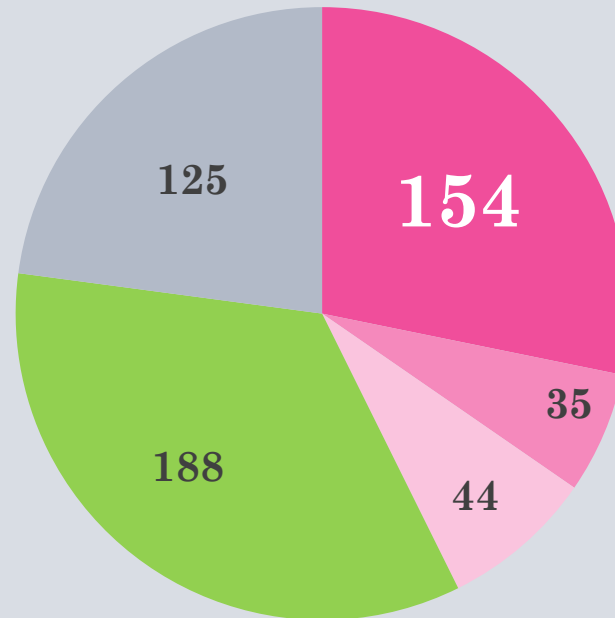


# RESULTS

- Fetus/newborn symptomatology : 546 cCMV



■ Severe  
■ Moderate  
■ Mild  
■ Asymptomatic  
■ Not documented

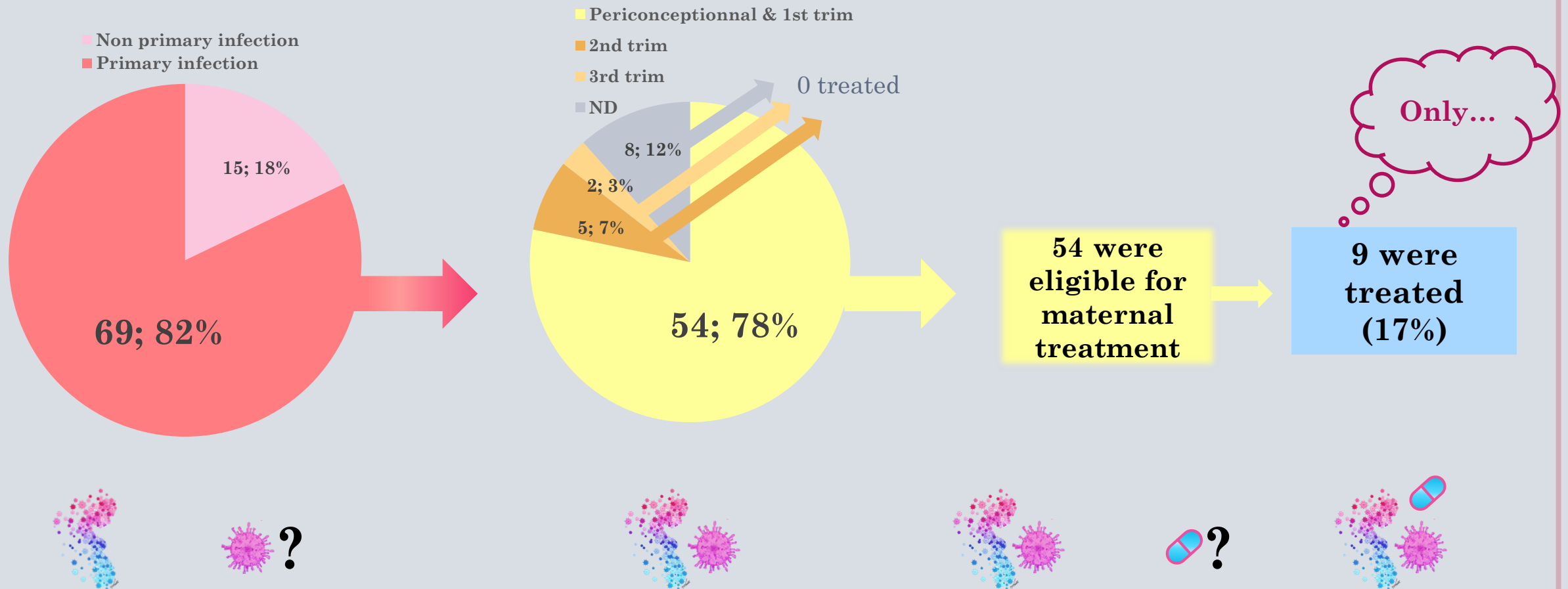


Severe (28%)



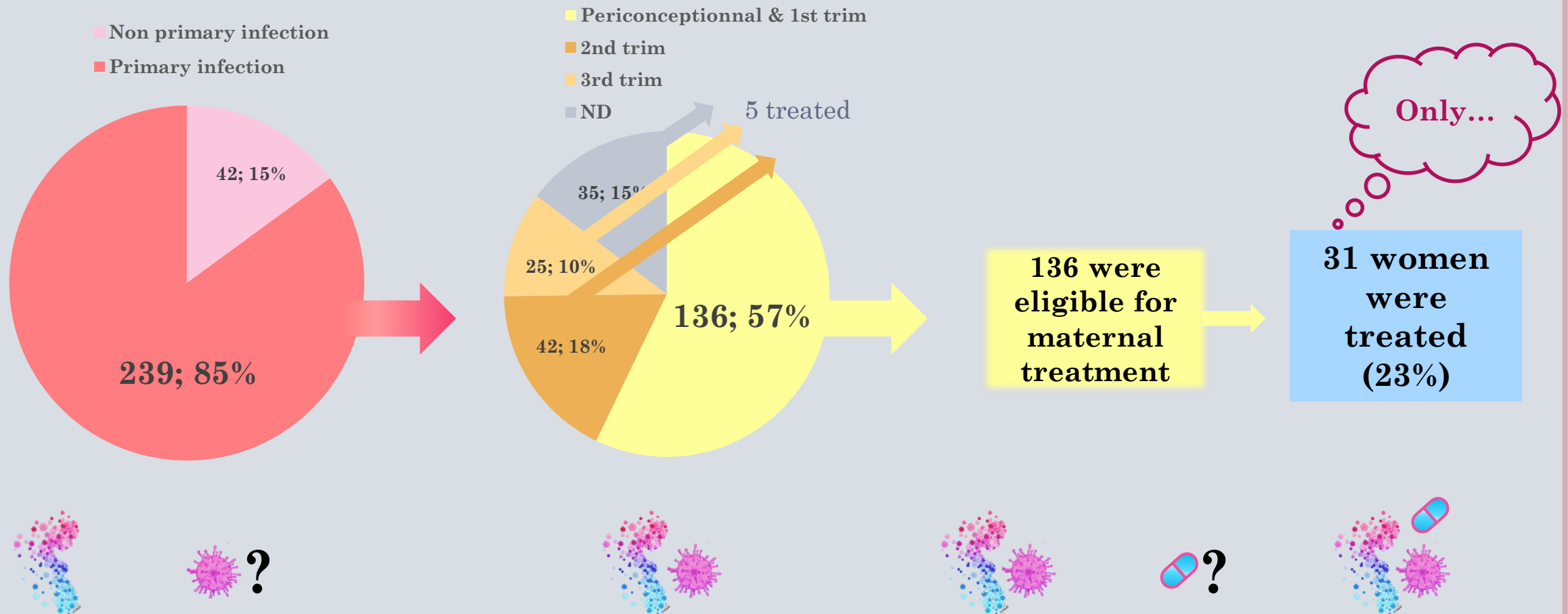
# RESULTS

- From these severe cCMV: maternal infections – maternal eligibility for treatment



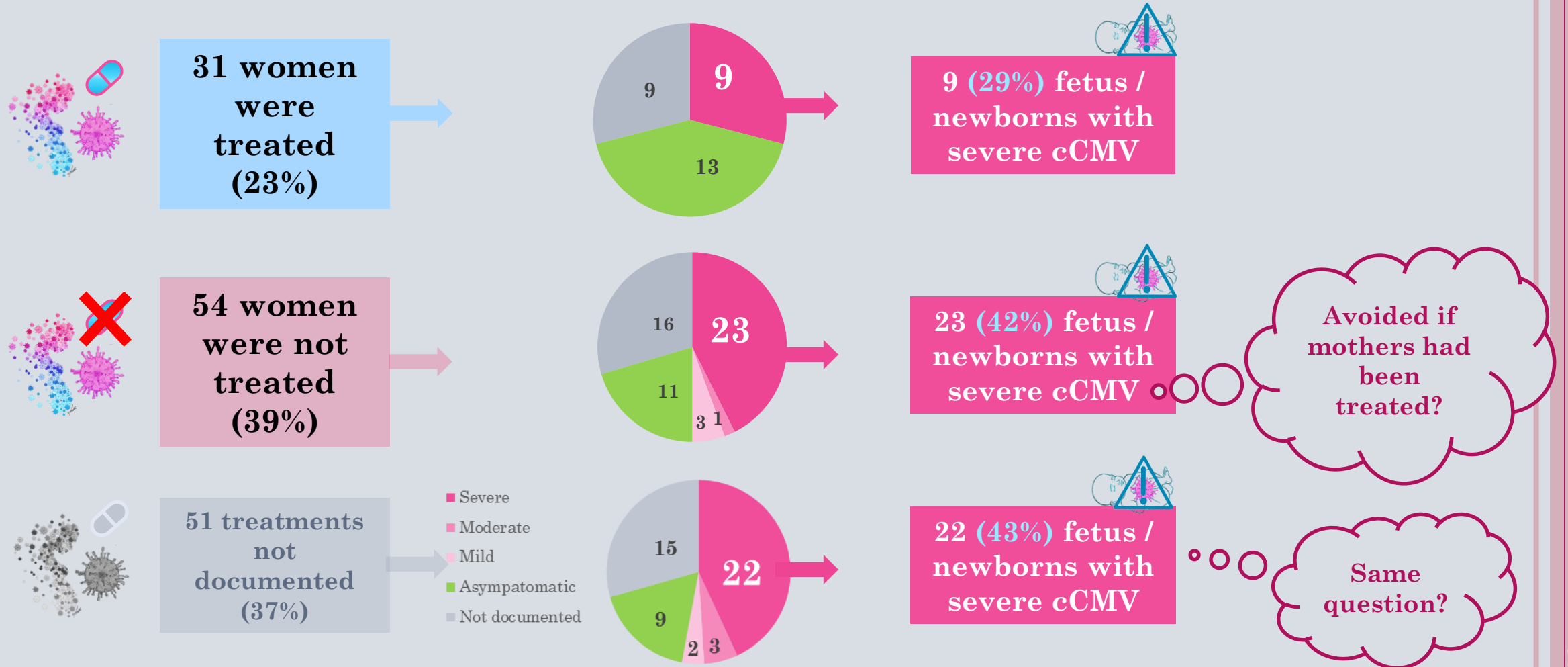
# RESULTS

- From all cCMV declared : maternal infections – maternal eligibility for treatment



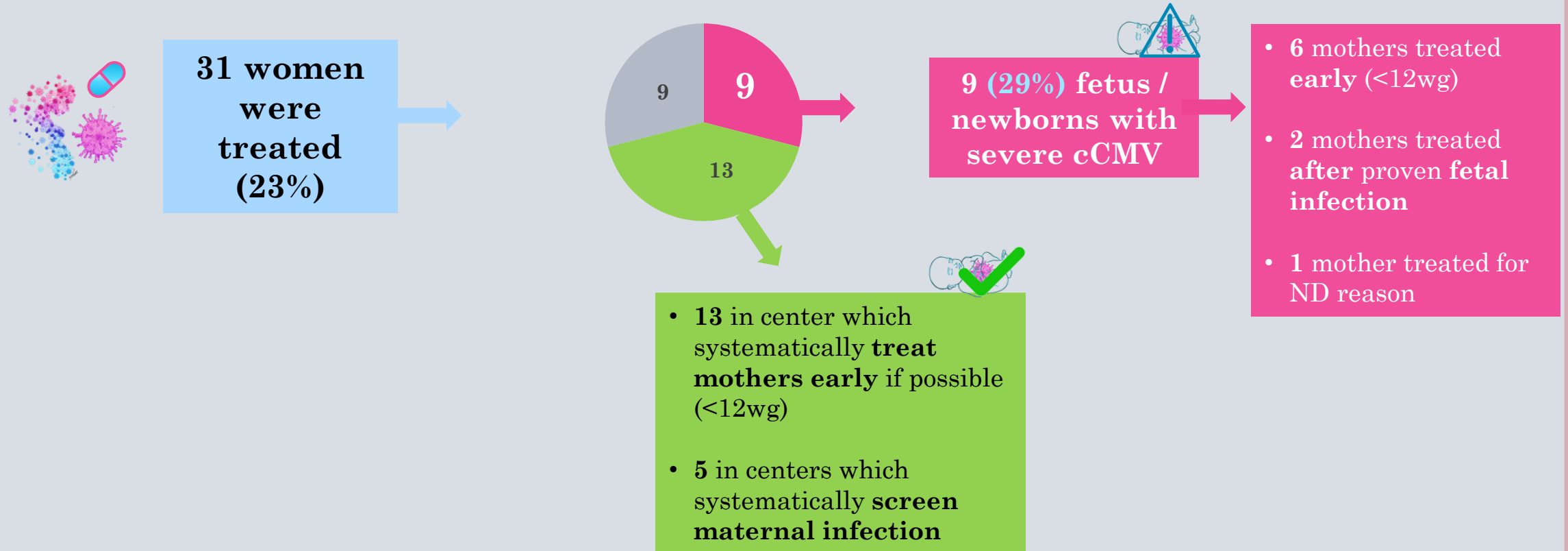
# RESULTS

- From 136 eligible women : maternal treatment - foetus/newborn symptomatology



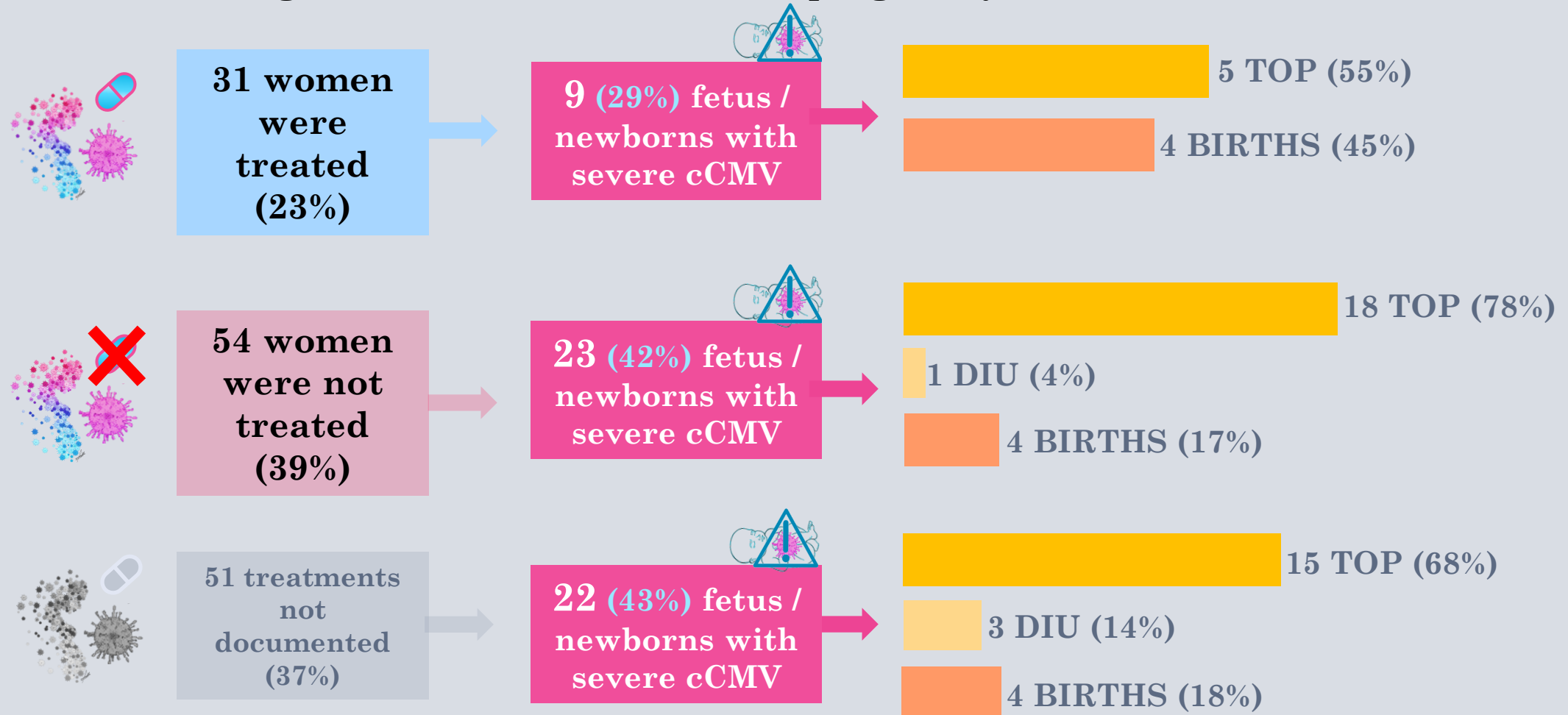
# RESULTS

- From 136 eligible women : maternal treatment - foetus/newborn symptomatology



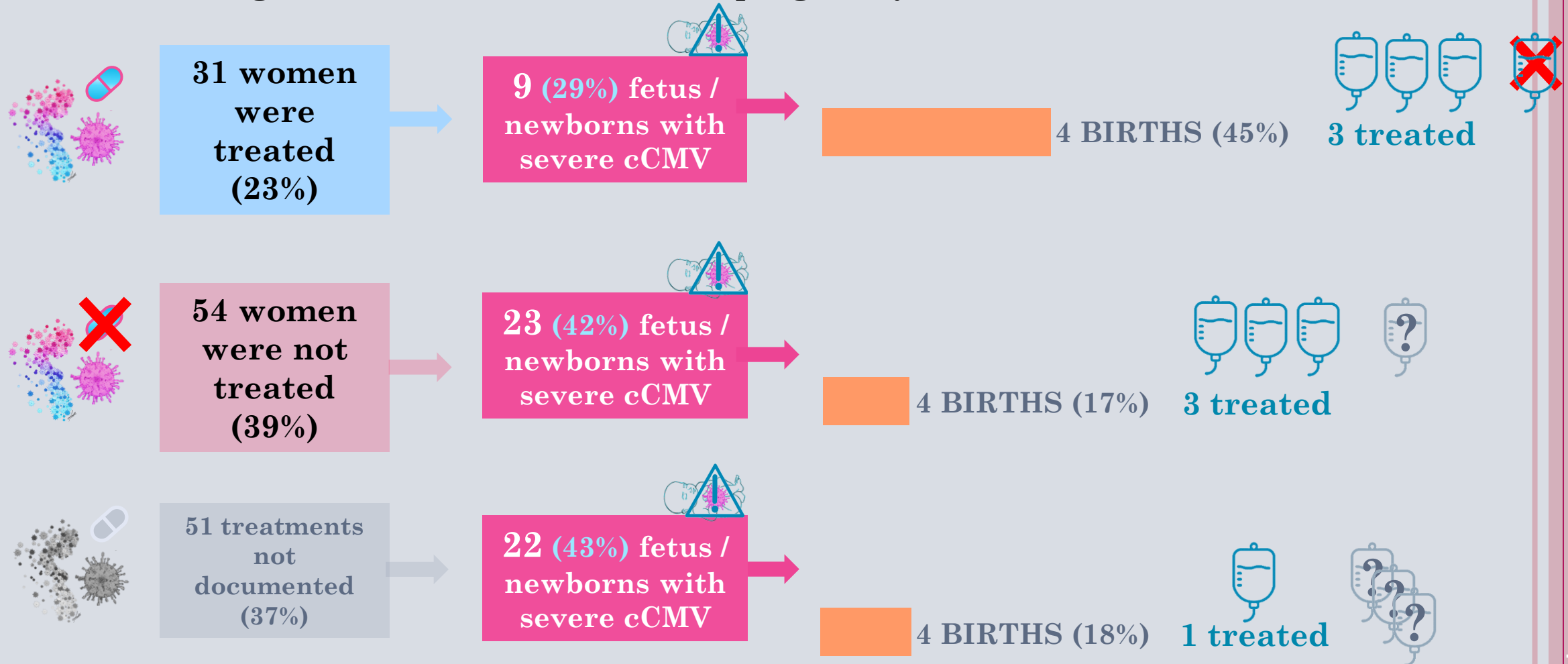
# RESULTS

- From 136 eligible women : severe cCMV - pregnancy outcomes



# RESULTS

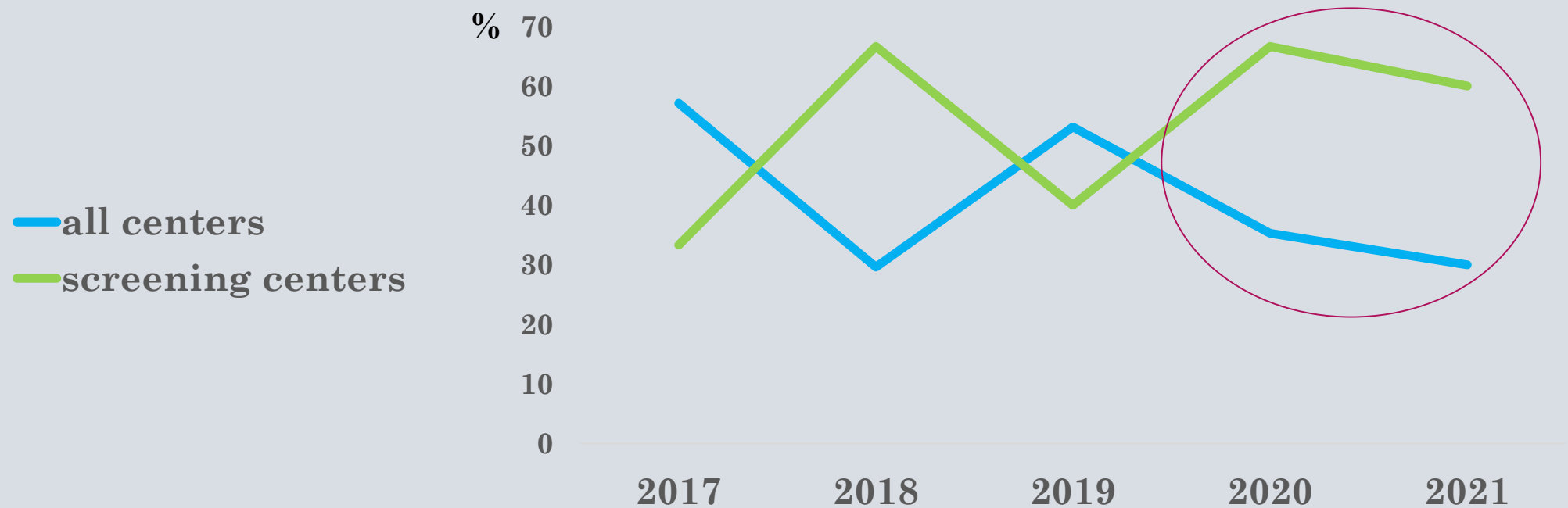
- From 136 eligible women : severe cCMV - pregnancy outcomes - **newborn treatment**



# RESULTS



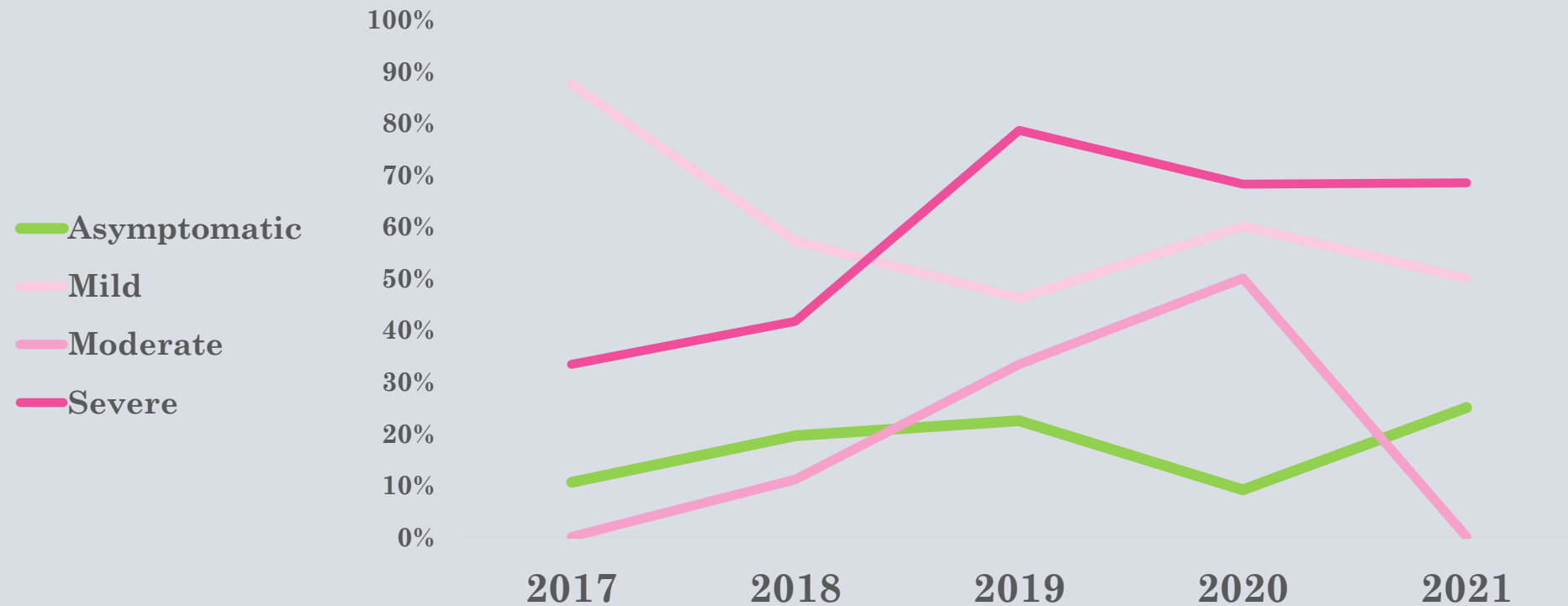
- Since 2017: proportion of women treated among women eligible for treatment



# RESULTS

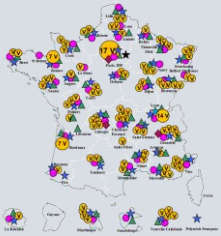


- Since 2017 : proportion of newborn treated for each symptomatology



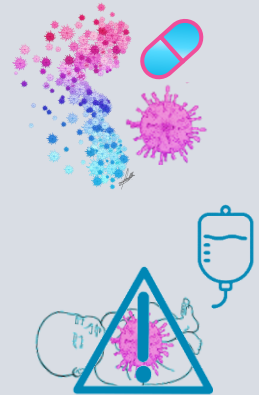
Total cCMV newborns	50	106	106	102	70
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# CONCLUSION



## ○ Pending work

- complete the missing data
- collect more data for exhaustivity



## ○ Results

- treatments were available
- but pregnant eligible women who could be treated were not...
- the burden of severe cCMV cases among these women (including TOP and DIU) remains significant in terms of outcome

## ○ Treatment benefit can only be obtained through well-organized screening and medical care

➡ implementation of systematic screening in pregnant women

# AKNOWLEDGMENTS



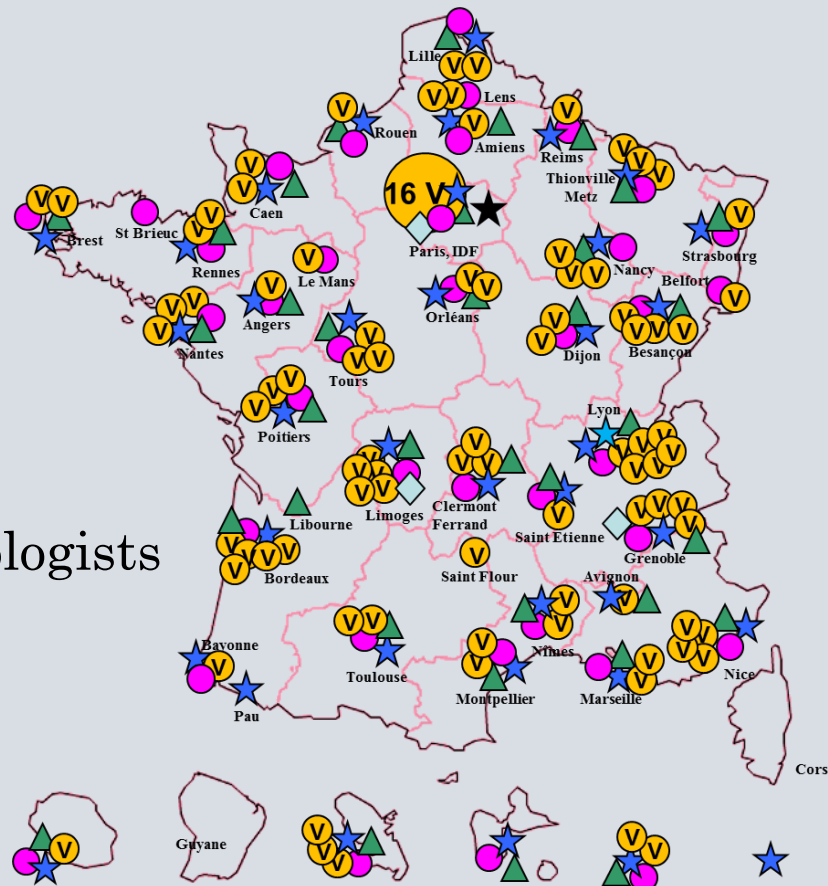
## V VOOZANOO connected

★ Biologists

◇ Otorhinolaryngologists

● Prenatal  
diagnosis centers  
Midwives and  
Obstetricians

▲ Pediatricians



*Illustration by Clotilde Muller*