

european congenital cytomegalovirus initiative 13-14NOVEMBER2020





SURVEY OF CONGENITAL CMV IN FRANCE : FOCUS ON FETAL AND NEWBORN SYMPTOMATOLOGY IN 2018 AND 2019

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INTRODUCTION

• Absence of congenital CMV screening:

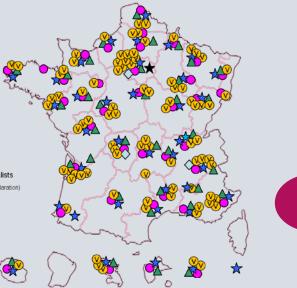
collecting data is difficult

• As a National Reference Center for Herpesviruses:

systematic declaration since 2006: 1264 cases

online declaration since 2016: 448 cases better documented

VOOZANOO Platform



METHODS

SURVEY

- Collection of 1266 cases since 2006 to 2019 from:
- 43 metropolitans
- several overseas regions (covering quite all the French territory)
 - ✓ 43 prenatal diagnosis centers and obstetricians,
 - ✓ 38 virology laboratories,
 - ✓ 35 neonatal pediatric,
 - ✓ 3 ENT (Ear, Nose and Throat) departments.

FOCUS

- 206 better documented cases in 2018 and 2019: study of fetal and newborn symptomatology
- Extraction of voozanoo declared cases

METHODS

CASES CLASSIFICATION *

Asymptomatic

- Absence of sonographic or clinical symptoms
- Absence of biological signs, or one isolated biological sign
- IUGR <u>or</u> prematurity (w/o other clinical sign)

Symptomatic

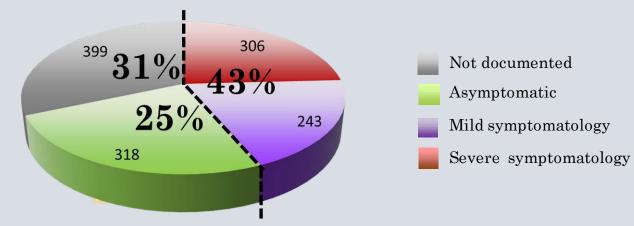
- <u>Mild</u> (only since 2018): extra-neurological symptoms
- Presence of 1 or 2 of the following clinical signs: petechiae, hepatomegaly, enterocolitis, hepatitis or biological signs, mild deafness.
- <u>Moderate</u>: extra-neurological symptoms
- biological sign (s) associated with at least 2 of the following clinical signs: splenomegaly, petechiae, respiratory distress, hepatomegaly, pneumopathy, enterocolitis, hepatitis, fever.
- more than two clinical signs among the following: splenomegaly, petechiae, respiratory distress, hepatomegaly, pneumopathy, enterocolitis, hepatitis, fever.

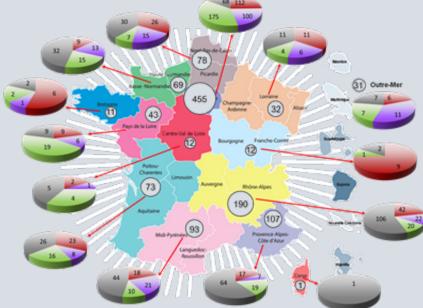
• <u>Severe</u>:

- unilateral deafness (<21 dB), chorioretinitis.
- neurological signs: bilateral deafness, microcephaly, tone disorder, white matter abnormalities, ventriculomegaly...

Results: survey since 2006 to 2019

• 1266 cases declared: SYMPTOMATOLOGY



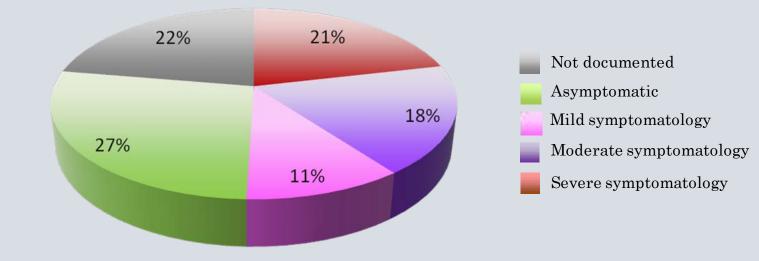


o 2006-2012 compared to 2013-2019



RESULTS: FOCUS ON 2018-2019

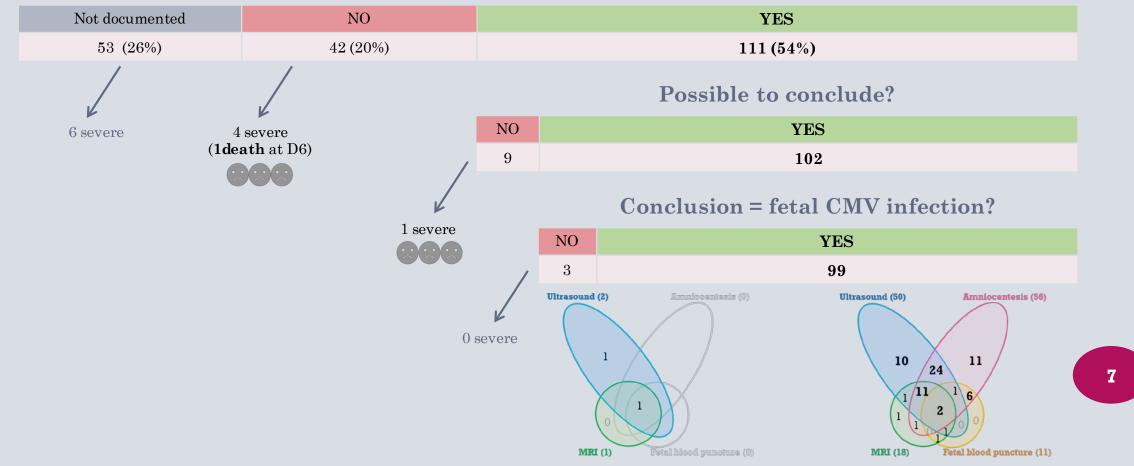
• 206 cases declared: SYMPTOMATOLOGY



RESULTS: FOCUS ON 2018-2019

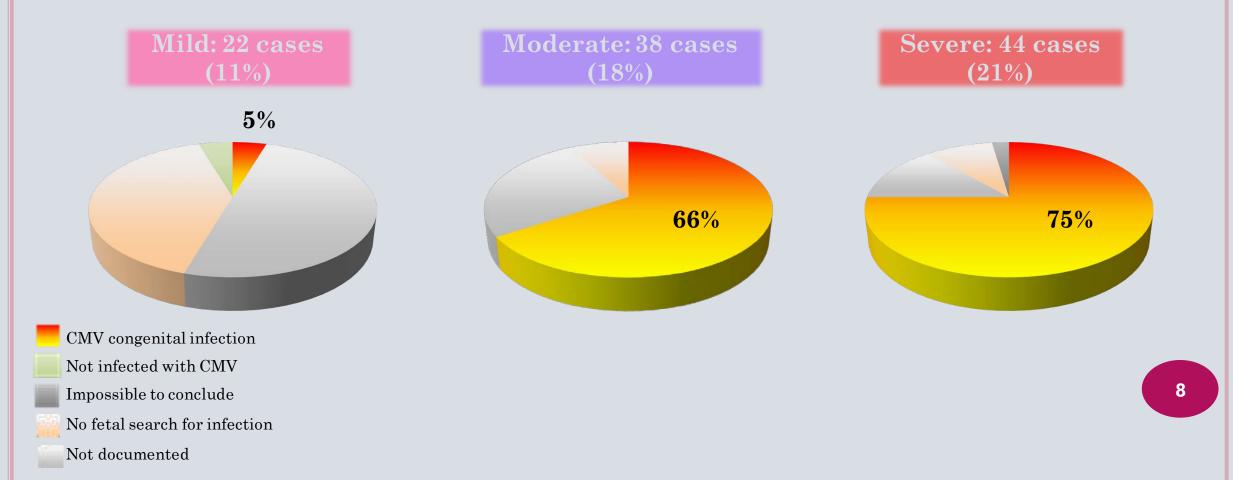
• 206 cases declared: FETAL DIAGNOSIS AVAILABLE?

Antenatal investigations for these 206 CMV congenital infections?



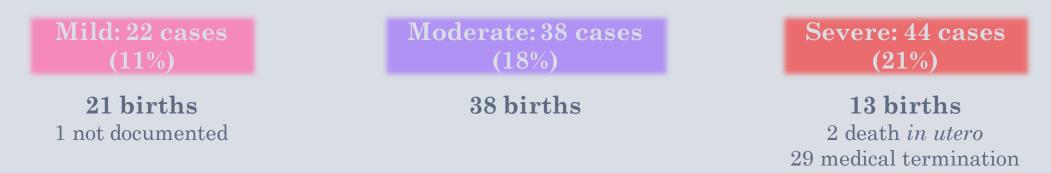
RESULTS: FOCUS ON 2018-2019

o 206 cases declared: FETAL DIAGNOSIS / SYMPTOMATOLOGY

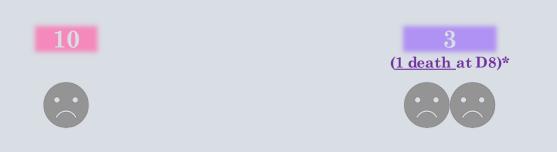


Results: focus on 2018-2019

• 206 cases declared: PREGNANCY OUTCOMES



• Births which were NOT DIAGNOSED IN UTERO





CONCLUSION

• Work remains to be done to complete the missing data.

- These data are nevertheless in agreement with previous clinical description of congenital CMV.
- Furthermore, even if moderate and severe cases are fairly well diagnosed *in utero*, there is still room for improvement.



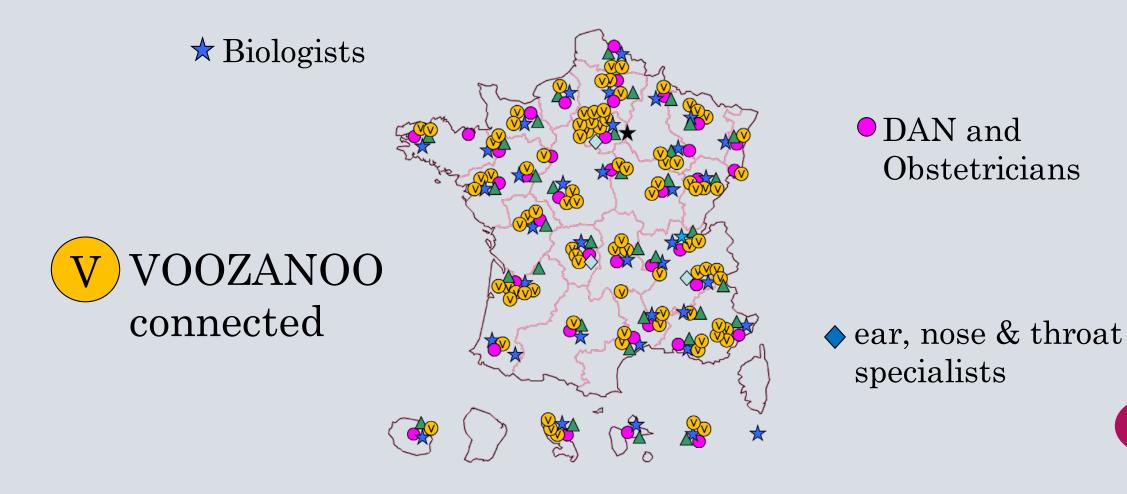
Better fetal diagnosis for better care at birth.





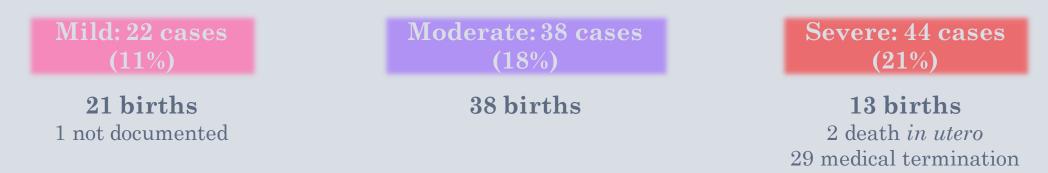
AKNOWLEGMENTS

\blacktriangle Pediatricians



Results: focus on 2018-2019

• 206 cases declared: PREGNANCY OUTCOMES



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