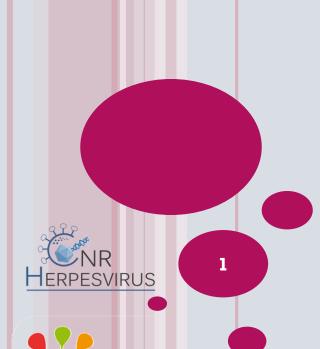


UNMET NEEDS IN MATERNAL DIAGNOSIS AND TREATMENT FOR CONGENITAL CMV IN FRANCE

DATA FROM THE FRENCH "CONGENITAL CMV DECLARATION PLATFORM" OF THE NATIONAL REFERENCE CENTER FOR HERPESVIRUSES

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Introduction

• Due to absence of maternal CMV infection screening :



- However, maternal therapeutic possibilities exist:
 - To prevent newborn sequelae due to CMV:
 - · Leruez-Ville et al (Am J Obstet Gynecol, 2016): valaciclovir
 - To prevent vertical transmission of CMV:
 - · Shahar-Nissan et al (The Lancet, 2020): valaciclovir
 - · Kagan et al (Ultrasound in Obstetrics & Gynecology, 2021): hyperimmunoglobulins



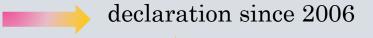
OBJECTIVES

• Identify the unmet needs in maternal diagnosis and treatment for cCMV in France

- Maternal diagnosis context in France
- Eligibility and access to maternal treatment
- Fetus/newborn symptomatology

METHODS

• cCMV database of the French National Reference Center for Herpesviruses:



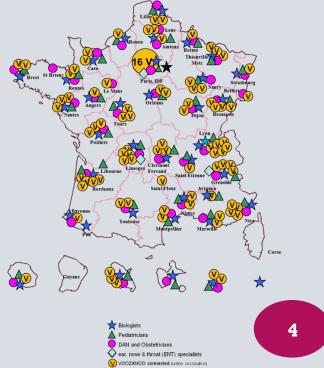
online declaration since 2016

French "cCMV declaration platform"

VOOZANOO

• Network:

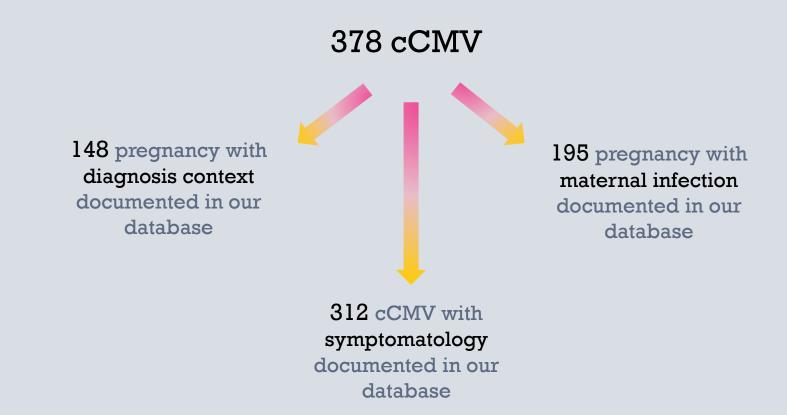
- 43 metropolitans
- several overseas regions (covering quite all the French territory)
 - ✓ 54 prenatal diagnosis centers and obstetricians,
 - ✓ 52 virology laboratories,
 - ✓ 61 neonatal pediatric,
 - ✓ 3 oto-rhino-laryngogist pediatrics.



• 1395 cCMV cases

METHODS

• Focus on 378 documented cCMV cases between 2018 and 2020



METHODS

o cCMV case

Presence of CMV in: amniotic fluid (fetus), urine, saliva (newborns)...

Fetus/newborn symptomatology

ASYMPTOMATIC

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

SYMPTOMATIC

• Mild (only since 2018): extra-neurological symptoms

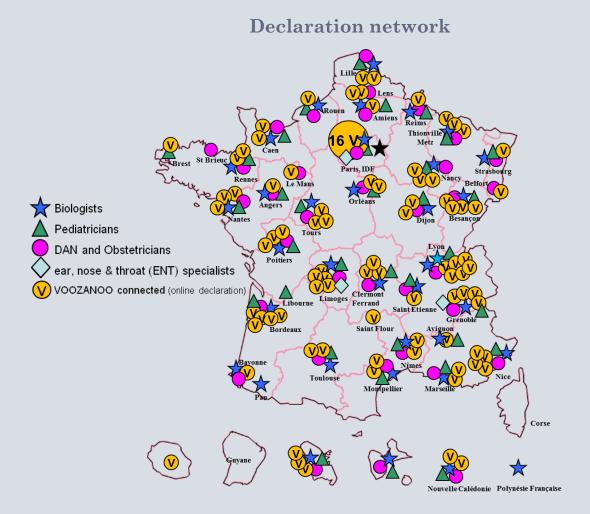
Presence of 1 or 2 of the following clinical signs: petechiae, hepatomegaly, enterocolitis, hepatitis or biological signs, mild deafness.

- Moderate: extra-neurological symptoms
- biological sign (s) associated with at least 2 of the following clinical signs: splenomegaly, peterhiae, respiratory distress, hepatomegaly, pneumopathy, enterocolitis, hepatitis, fever.
- more than two clinical signs among the following: splenomegaly, petechiae, respiratory distress, hepatomegaly, pneumopathy, enterocolitis, hepatitis, fever.

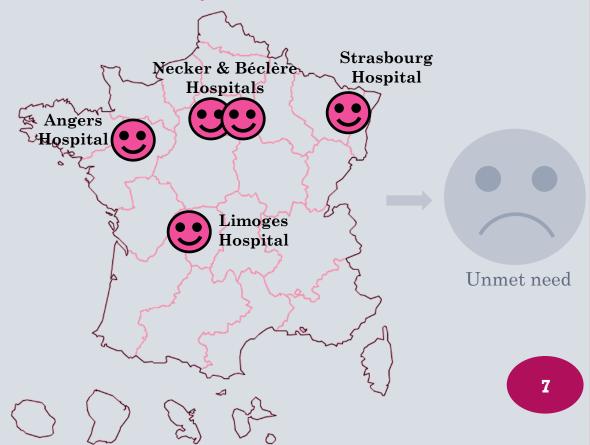
• <u>Severe</u>:

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

• Status of french cmv screening in 2020

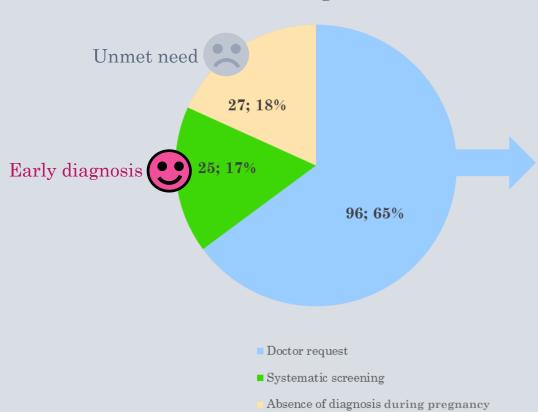


Maternal CMV systematic screening

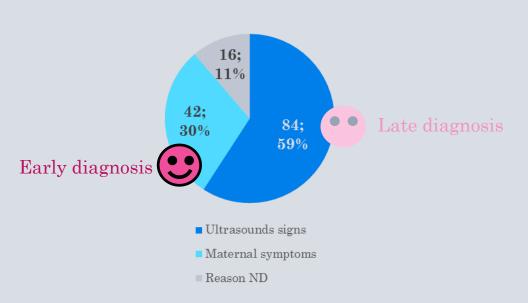


Maternal diagnosis context

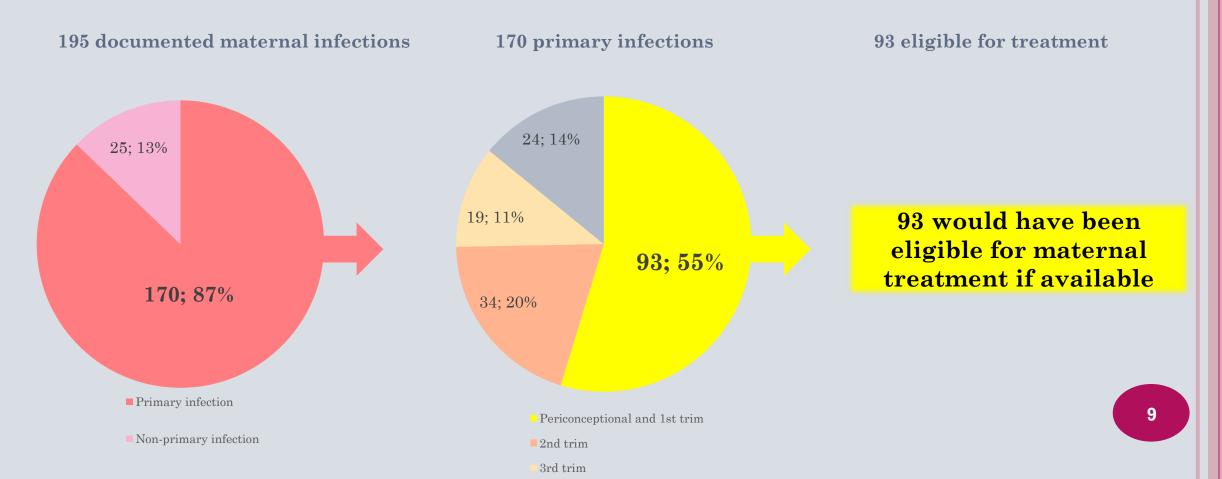
Maternal diagnosis context



Doctor request reasons

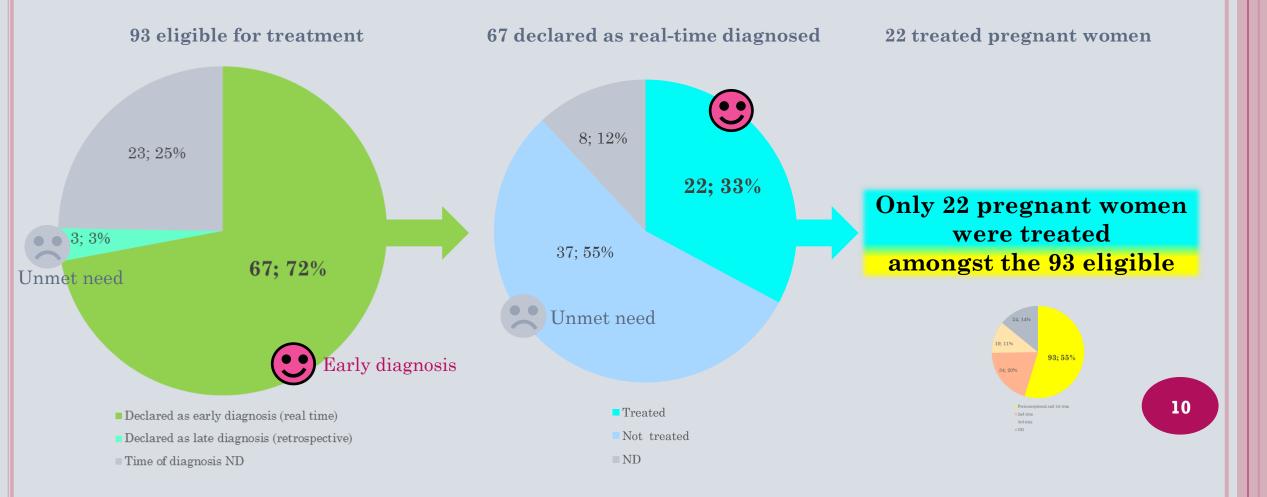


• Eligibility for maternal treatment

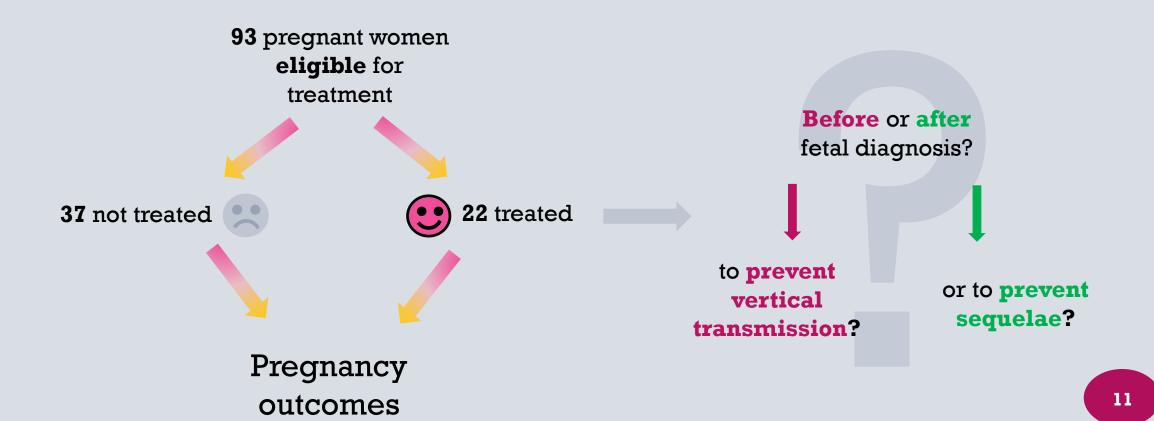


■ND

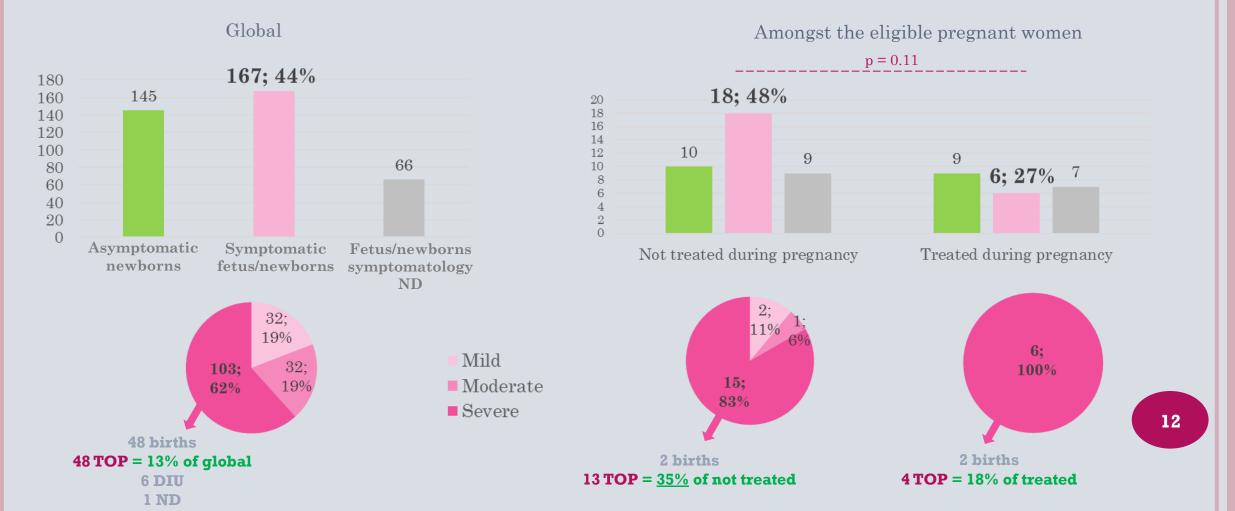
• Reported maternal treatment



• Time/reason for treatment?



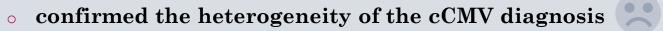
Fetus/newborn symptomatology

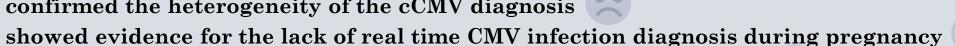


CONCLUSION

• Work remains to be done to complete the missing data

• Results









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



establishment of systematic screening in pregnant women



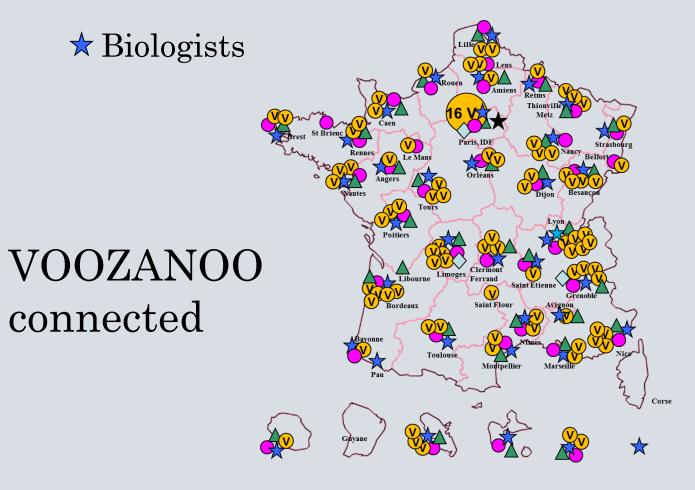
AKNOWLEGMENTS

connected



▲ Pediatricians

★ Biologists



DAN and Obstetricians

♦ ear, nose & throat specialists