



EDITION 2  
CONGENITAL  
CMV

FROM PREGNANCY TO INFANCY: LET'S FACE IT

21-22 OCTOBER

2021



ROME | ITALY

[cmvcongress.eu](http://cmvcongress.eu)

## CONGRESS PRESIDENTS



### **Yves Ville, France**

Professor of Gynecology-Obstetrics, Faculty of Medicine of René Descartes University  
Head of the Obstetrics and Fetal Medicine Department  
CPDPN coordinator of Necker Children's Hospital



### **Efraim Bilavsky, Israel**

Senior physician in the pediatric department.  
A specialist in infectious diseases, Schneider Children's Medical Center.

## FACULTY MEMBERS

Chloe Arthuis, France

Efraim Bilavsky, Israel

Daniel Blázquez-Gamero, Spain

Christos Chatzakis, Greece

Valentine Faure-Bardon, France

Ina Foulon, Belgium

Anna Gonce, Spain

Karl Oliver Kagan, Germany

Tiziana Lazzarotto, Italy

Marianne Leruez-Ville, France

Daniele Lilleri, Italy

Shlomo Lipitz, Israel

Hermione Lyall, United Kingdom

Blake Papsin, United States

Mark R. Schleiss, United States

Valerie Seror, France

Shilpee Sharma, Belgium

Natasha Teissier, France

Yves Ville, France

## SCIENTIFIC PROGRAMME



OCTOBER | 2021

- 09.00 – 09.05 WELCOME FROM CONGRESS PRESIDENTS  
*Yves Ville, France*
- 09.05 – 12.15 **SESSION 1 - Asymptomatic children with cCMV**  
*Moderators: Daniel Blázquez Gamero, Spain - Efraim Bilavsky, Israel*
- 09.05 – 09.25 What is an asymptomatic neonate in 2021?  
*Daniel Blázquez Gamero, Spain*
- 09.25 – 09.45 What can we offer to asymptomatic children with late onset hearing loss?  
*Ina Foulon, Belgium*
- 09.45 – 10.05 Advanced imaging in fetal CMV infection  
*Chloe Arthuis, France*
- 10.05 – 10.25 Are there any late complications other than hearing impairment in asymptomatic children?  
*Hermione Lyall, United Kingdom*
- 10.25 – 10.35 (ID 11) - Does universal newborn screening for congenital cytomegalovirus (cCMV) infection help? A cohort study from Qatar and Germany  
*Katrin Neumann, Germany*
- 10.35 – 10.45 (ID 12) - Congenital CMV infection: a risk factor for neuro-psychological sequelae?  
*Arianna Turriziani Colonna, Italy*
- 10.45 – 10.55 (ID 48) - Congenital CMV infection - 7 year experience in a Portuguese neonatal intensive care unit  
*Francisca Calheiros Trigo, Portugal*
- 10.55 – 11.10 Discussion
- 11.10 – 11.30 COFFEE BREAK

- 11.30 – 11.40 (ID 16) Evolution of the intracranial features of congenital CMV in children  
*Jack Garnham, United Kingdom*
- 11.40 – 11.50 (ID 42) Single Nucleotide Polymorphisms of Interleukins and Toll-like Receptors and Neuroimaging Results in Newborns with Congenital HCMV Infection  
*Justyna Czech-Kowalska, Poland*
- 11.50 – 12.00 (ID 47) Newborns with Autism Spectrum Disorder: a link with congenital CMV?  
*Perrine Coste Mazeau, France*
- 12.00 – 12.15 Discussion
- 12.15 – 13.00 **DEBATE: UNIVERSAL NEONATAL SCREENING**  
*Mark R. Schleiss, USA Vs. Daniel Blázquez Gamero, Spain*
- 13.00 – 14.00 **LUNCH / POSTER VIEWING**
- 14.00 – 15.00 **Congenital CMV infection: how to implement the diagnostics and the clinical follow up**  
Industry supported session please refer to page 8
- 15.00 – 15.35 **ORAL COMMUNICATIONS - Congenital CMV infection**
- 15.00 – 15.10 (ID 31) - Prevalence and Clinical Characteristics of Congenital Cytomegalovirus Infection in a Population-Based Universal Newborn Screening Study in Minnesota  
*Mark Schleiss, United States*
- 15.10 – 15.20 (ID 35) - Screening for congenital cytomegalovirus in preterm babies <30 weeks gestation  
*Styliani Alifieraki, United Kingdom*
- 15.20 – 15.35 Discussion
- 15.35 – 16.00 **COFFEE BREAK**
- 16.00 – 17.30 **SESSION 2 - Infection during pregnancy**  
*Moderator: Tiziana Lazzaroto, Italy*
- 16.00 – 16.20 **Gestational age at maternal infection and postnatal outcome**  
*Christos Chatzakis, Greece*

- 16.20 – 16.40      **The biological clock for maternal serology is ticking for prenatal screening**  
*Marianne Leruez-Ville, France*
- 16.40 – 17.00      **Non-primary infections. Biological markers**  
*Daniele Lilleri, Italy*
- 17.00 – 17.10      **(ID 8) - Cytomegalovirus non primary infection during pregnancy: retrospective serological and molecular analysis in 38 patients.**  
*Claire Perillaud-Dubois, France*
- 17.10 – 17.20      **(ID 36) - CMV DNA in placentae from first trimester primary infection cases with or without fetal infection and with or without valaciclovir treatment**  
*Jacques Fourgeaud, France*
- 17.20 – 17.30      **Discussion**
- 17.30 – 18.30      **DEBATE: Vaccines – adults or toddlers?**  
*Yves Ville, France VS. Efraim Bilavsky, Israel*



OCTOBER | 2021

09.00 – 12.00

**SESSION 4 – Fetal infection**

*Moderator: Karl Oliver Kagan, Germany*

09.00 – 09.20

International registry on the use of valaciclovir for secondary prevention

*Valentine Faure-Bardon, France*

09.20 – 09.40

Hyperimmune globulins, how and how much

*Karl Oliver Kagan, Germany*

09.40 – 10.00

Screening in pregnancy, what can you get for your money?

*Valérie Seror, France*

10.00 – 10.20

Screening in pregnancy, why not then?

*Anna Gonc, Spain*

10.20 – 10.45

Discussion

10.45 – 11.15

COFFEE BREAK

11.15 – 12.00

**DEBATE: Invasive Diagnosis the earlier the better**

*Yves Ville, France Vs. Schlomo Lipitz, Israel*

12.00 – 12.20

Do we need to perform brain MRI in every infant with Ccmv?

*Efraim Bilavsky, Israel*

12.20 – 13.30

LUNCH AND POSTER VIEWING

13.30 – 16.35

**SESSION 5 – Hearing loss, vestibular disorders and rehabilitation in children with cCMV**

*Moderator: Ina Foulon, Belgium*

13.00 – 13.20

Hearing loss in children with cCMV – from the broad spectrum to the individual

*Blake Papsin, Canada (videoconference)*

13.20 – 13.40

How do we diagnose and treat vestibular problems in children with CCMV?

*Natacha Teissier, France*

13.40 – 14.00

Hearing and vestibular rehabilitation in children with unilateral hearing loss

*Blake Papsin, Canada (videoconference)*

- 14.00 – 14.15 Discussion
- 14.15 – 14.25 (ID 10) - The CONCERT Study: Treatment of Infants with Congenital Cytomegalovirus Infection and Isolated Hearing Loss, Detected Through Newborn Hearing Screening  
*P.K. Chung, the Netherlands*
- 14.25 – 14.35 (ID 4) - The effect of (val)ganciclovir on hearing in congenital cytomegalovirus: a systematic review.  
*Elise De Cuyper, Belgium*
- 14.35 – 14.45 (ID 40) - Immunogenicity Findings From a Phase 1, Randomized, Observer-Blind, Placebo-Controlled, Dose-Ranging Study of an mRNA-Based Vaccine Against Cytomegalovirus Infection  
*Lori Panther, United States*
- 14.45 – 14.55 (ID 43) - Universal newborn screening for congenital CMV infection: a prospective multicenter clinical trial  
*Liliana Gabrielli, Italy*
- 14.55 – 15.05 (ID 49) - Prognostic value of mild cerebral features in infected fetuses treated in utero after maternal infection in the first trimester  
*Either Chloe Artyuis, France*
- 15.05 – 15.30 **COFFEE BREAK**
- 15.30 – 15.40 (ID 18) - 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  
*Elodie Ribot, France*
- 15.40 – 15.50 (ID 23) Performance of targeted congenital cytomegalovirus screening in newborns failing universal hearing screening: a multicenter study  
*Jacques Fourgeaud, France*
- 15.50 – 16.05 Discussion
- 16.05 – 16.35 Anti-CMV Vaccines. Any lesson learned from the Covid pandemic?  
*Shilpe Sharma, Belgium*
- 16.35 – 16.50 **CLOSING REMARKS**  
*Yves Ville, Efraim Bilavsky*

## SPONSORED SESSION

- 14.00 – 15.00      **Congenital CMV infection: how to implement the diagnostics and the clinical follow up**
- 14.00 – 14.20      **Diagnosis of maternal CMV infection: lights and shadows**  
*Tiziana Lazzarotto, Italy*
- 14.20 – 14.40      **Neonatal diagnosis of CMV congenital infection: current approach and pitfalls**  
*Marianne Leruez-Ville, France*
- 14.40 – 15.00      **Hearing loss and clinical follow up in children with cCMV infection**  
*Ina Foulon, Belgium*

Session supported by





## POSTER SESSION

- (ID 1) **Congenital Cytomegalovirus Infection Management; what is new?**  
**Therese Mary William<sup>1</sup>**  
<sup>1</sup>*Qeh, London, United Kingdom*
- (ID 5) **Congenital Cytomegalovirus Infections a mother–newborn pair study in Southern Ethiopia**  
**Mengistu Hailemariam Zenebe<sup>1</sup>, Elizaveta Padalko<sup>1</sup>**  
<sup>1</sup>*Ghent University, Ghent, Belgium*
- (ID 6) **The genetic variability of Human Cytomegalovirus: possible implications in clinical, immunological and virological settings**  
**Alessia Spadavecchia, Agata Leone, Valentina Dell'Oste, Matteo Biolatti, Alessandra Coscia, Francesco Cresi, Carlotta Rubino, Enrico Bertino, Chiara Peila**  
<sup>1</sup>*Neonatal Care Unit, Department of Public Health and Pediatric Sciences, University of Turin, Turin, Italy*
- (ID 7) **Performances of Cytomegalovirus PCR in serum vs whole blood to confirm/exclude CMV primary infection in pregnant women**  
**Claire Perillaud–dubois<sup>1</sup>, Elise Bouthry<sup>2</sup>, Lina Mouna<sup>3</sup>, Christine Pirin<sup>3</sup>, Mme Corinne Vieux–Combe<sup>3</sup>, Olivier Picone<sup>4</sup>, Anne–Marie Roque–Afonso<sup>3</sup>, Alexandre J. Vivanti<sup>5</sup>, Christelle Vauloup–Fellous<sup>3</sup>**  
<sup>1</sup>*APHP.Sorbonne Université, hôpital Saint–Antoine, virology laboratory, Paris, France, <sup>2</sup>CHU Angers, microbiology laboratory, Angers, France, <sup>3</sup>APHP.Université Paris–Saclay, Hôpital Paul Brousse, virology laboratory, Villejuif, France, <sup>4</sup>APHP.Nord, Hôpital Louis Mourier, Service de gynécologie–obstétrique, Colombes, France, <sup>5</sup>APHP.Université Paris–Saclay, Hôpital Antoine Béclère, service de gynécologie–obstétrique, Clamart, France*
- (ID 9) **Congenital CMV Monthly International Virtual Clinics: A cCMVnet European Initiative**  
**Despoina Gkentzi<sup>1</sup>, Daniel Blázquez Gamero<sup>2</sup>, Vassiliki Papaevangelou<sup>3</sup>, Horst Buxmann<sup>4</sup>, Estrella Esquivel de la Fuente<sup>2</sup>, Simon Drysdale<sup>5</sup>, Hermione Lyall<sup>6</sup>, on behalf of cCMVnet members**  
<sup>1</sup>*Patras Medical School, Patras, Greece, <sup>2</sup>Hospital Universitario 12 de Octubre, Madrid, Spain, <sup>3</sup>National and Kapodistrian University of Athens, Athens, Greece, <sup>4</sup> Oberarzt der Klinik für Kinderheilkunde und Jugendmedizin, Gelnhausen, Germany, <sup>5</sup>St Georges Hospital, London, United Kingdom, <sup>6</sup>Imperial College Healthcare NHS Trust, , United Kingdom*
- (ID 13) **First data of an universal screening for congenital CMV using the novel DiaSorin Molecular Simplexa™ Congenital CMV Direct Assay**  
**Gabriele Baumann<sup>1</sup>, Evelin Ziebermayr<sup>1</sup>, Yarub Salaheddin–Nasr<sup>1</sup>**  
<sup>1</sup>*General Hospital, Steyr, Austria*

**(ID 14) Incremental Healthcare Costs and Resource Utilization in Infants with Congenital Cytomegalovirus (cCMV) Disease During the First two Years of Life: A Retrospective Statutory Health Insurance Claims Database Analysis from Germany**

**Marion de Lepper**<sup>1</sup>, Regine Wölle<sup>2</sup>, Agnes Luzak<sup>2</sup>, Wei Wang<sup>4</sup>, Kim Schneider<sup>5</sup>, Christian Jacob<sup>5</sup>, Horst Buxmann<sup>6</sup>, Rangmar Goelz<sup>7</sup>, Klaus Hamprecht<sup>8</sup>, Peter Kummer<sup>9</sup>, Susanne Modrow<sup>10</sup>, Wolfgang Greiner<sup>11</sup>, Miriam Reuschenbach<sup>3</sup>, Anna-Janina Stephan<sup>2</sup>

<sup>1</sup>Medical Affairs, MSD Sharp and Dohme GmbH, Haar, Germany, <sup>2</sup>Market Access, MSD Sharp and Dohme GmbH, Haar, Germany, <sup>3</sup>Global Medical and Scientific Affairs, MSD Sharp and Dohme GmbH, Haar, Germany, <sup>4</sup>Center for Observational and Real-World Evidence (CORE), Merck & Co., Inc., Kenilworth, NJ, USA, <sup>5</sup>Xcenda GmbH, Hannover, Germany, <sup>6</sup>Department for Children and Adolescents, Division for Neonatology, Main-Kinzig-Kliniken GmbH, Gelnhausen, Germany, <sup>7</sup>Department of Neonatology, University Hospital of Tuebingen, Tuebingen, Germany, <sup>8</sup>Institute for Medical Virology and Epidemiology of Viral Diseases, University of Tuebingen, Tuebingen, Germany, <sup>9</sup>Sect. of Phoniatrics and Pediatric Audiology, Department of Otolaryngology, University Hospital Regensburg, Regensburg, Germany, <sup>10</sup>Institute of Medical Microbiology and Hygiene, University of Regensburg, Regensburg, Germany, <sup>11</sup>Department of Health Economics and Health Care Management, Bielefeld School of Public Health, Bielefeld University, Bielefeld, Germany

**(ID 19) Universal Newborn Screening of Congenital Cytomegalovirus using Dried Blood Spots and qPCR**

**Eleanore Dougherty**<sup>1</sup>, Macy Veling<sup>1</sup>, Kristin McCunn<sup>2</sup>, Jessica Ravenscroft<sup>2</sup>, Stephanie Dallaire<sup>2</sup>, Janine Kennedy<sup>2</sup>, Zhili Lin<sup>2</sup>, Yanhong Tong<sup>1</sup>

<sup>1</sup>PerkinElmer R&D, Waltham, United States, <sup>2</sup>PerkinElmer Genomics, Pittsburgh, United States

**(ID 21) What does the “halo” sign mean in fetal CMV infection?**

**Ameth Hawkins-Villarreal**<sup>1,2,3</sup>, Karen P. Castillo<sup>1</sup>, Elisenda Eixarch<sup>1,2</sup>, Alfons Nadal<sup>2,4,5</sup>, Ana Alarcón<sup>1</sup>, Silvia Planas<sup>6</sup>, Francesc Figueras<sup>1,2</sup>, Anna Gonc <sup>1,2</sup>

<sup>1</sup>Fetal Medicine Research Center (Hospital Cl nic and Hospital Sant Joan de D u), Universitat de Barcelona, Spain, Barcelona, Spain, <sup>2</sup>Institut d'Investigacions Biom diques August Pi i Sunyer (IDIBAPS), Barcelona, Spain, <sup>3</sup>Fetal Medicine Service, Obstetrics Department, Hospital Santo Tom s, University of Panama, Panama City, Panam . On behalf of the Iberoamerican Research Network in Obstetrics, Gynecology, and Translational Medicine, <sup>4</sup>Department of Basic Clinical Practice, University of Barcelona; Barcelona, Spain, <sup>5</sup>Pathology, Hospital Cl nic, Barcelona, Spain, <sup>6</sup>Department of Anatomical Pathology, Hospital Sant Joan de D u, Barcelona, Spain

**(ID 22) Cortical maturation assessed by magnetic resonance imaging in unaffected/mildly affected fetuses with cytomegalovirus infection**

**Ameth Hawkins-Villarreal**<sup>1</sup>, Ana Moreno-Espinosa<sup>1,3</sup>, Nadine Hahner<sup>1</sup>, Raigam Mart nez-Portilla<sup>1</sup>, Ayako Nakaki<sup>1</sup>, Olivier Picone<sup>4</sup>, Isabelle Simon<sup>5</sup>, Elisenda Eixarch<sup>1,2</sup>, **Anna Gonc **<sup>1,2</sup>

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**(ID 24) The importance of DBS samples testing for the diagnosis of congenital CMV infection in children with hearing loss**

Mirko Alde<sup>1</sup>, Laura Pellegrinelli<sup>2</sup>, Sandro Binda<sup>2</sup>, Umberto Ambrosetti<sup>1</sup>, Federica Di Berardino<sup>1,3</sup>, Diego Zanetti<sup>3</sup>, Giovanna Cantarella<sup>1,4</sup>

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**(ID 25) Serum anti-EBV and anti-CMV antibodies in children with Sudden Sensorineural Hearing Loss: the important role of universal screening for cCMV**

Mirko Alde<sup>1</sup>, Laura Pellegrinelli<sup>2</sup>, Umberto Ambrosetti<sup>1</sup>, Federica Di Berardino<sup>1,3</sup>, Diego Zanetti<sup>3</sup>, Sandro Binda<sup>2</sup>, Giovanna Cantarella<sup>1,4</sup>

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**(ID 26) First-trimester universal screening for Cytomegalovirus. A pilot study at a tertiary referral center in Barcelona (Catalunya, Spain)**

Karen Castillo<sup>1</sup>, Ameth M. Hawkins-Villarreal<sup>1,2,3</sup>, M. Angeles Marcos<sup>4</sup>, Imma Mercadé<sup>5</sup>, Elena Casals Font<sup>5</sup>, Francesc Figueras<sup>1,2</sup>, Anna Goncá<sup>1,2</sup>

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**(ID 27) Why we need universal screening for diagnosis of congenital cytomegalovirus infection: Audit of time to diagnosis and treatment initiation**

Styliani Alifieraki<sup>1</sup>, Chantal Hathaway<sup>1</sup>, Rachel Wei Ying Tan<sup>2</sup>, Hermione Lyall<sup>1</sup>

<sup>1</sup>St Mary's Hospital, Paediatric Infectious Diseases department, Imperial College Healthcare NHS Trust, London, United Kingdom, <sup>2</sup>Imperial College London, School of Medicine, London, United Kingdom

**(ID 28) FETAL CYTOMEGALOVIRUS INFECTION WITH MODERATE CENTRAL NERVOUS SYSTEM LESIONS DIAGNOSED DURING THE THIRD TRIMESTER OF PREGNANCY. A CASE REPORT**

**Laura Guirado**<sup>1</sup>, Ameth Hawkins<sup>1</sup>, Karen Castillo<sup>1</sup>, Ana Alarcon<sup>2</sup>, Claudia Fortuny<sup>3</sup>, Elisenda Eixarch<sup>1</sup>, Marta Gómez-Chiari<sup>4</sup>, Mónica Rebollo<sup>4</sup>, Edurne Mazarico<sup>1</sup>, Marta López<sup>1</sup>, Maria Dolores Gómez-Roig<sup>1</sup>, Francesc Figueras<sup>1</sup>, Anna Goncé<sup>1</sup>

<sup>1</sup>BCNatal - Barcelona Center for Maternal-Fetal and Neonatal Medicine (Hospital Clínic and Hospital Sant Joan de Déu), Universitat de Barcelona, Barcelona, España, <sup>2</sup>Department of neonatology. Sant Joan de Déu University Hospital, Barcelona, Spain, <sup>3</sup>Pediatric Infectious Unit, Sant Joan de Déu University Hospital, Barcelona, Spain, <sup>4</sup>Neuroimaging Unit, Sant Joan de Déu University Hospital, Barcelona, Spain

**(ID 29) Secondary cytomegalovirus infections: the importance of universal screening**

**Fabiola Scaramuzzino**<sup>1</sup>, Michela Di Pastena<sup>3</sup>, Sara Chiurchiù<sup>1</sup>, Maia De Luca<sup>1</sup>, Lorenza Romani<sup>1</sup>, Donato Amodio<sup>2</sup>, Patrizia D'argenio<sup>1</sup>, Stefania Bernardi<sup>1</sup>, Paolo Rossi<sup>2</sup>, Francesca I. Calò Carducci<sup>1</sup>

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**(ID 30) MAGNETIC RESONANCE IMAGING: A POWERFUL DIAGNOSTIC TOOL FOR AN EARLY IDENTIFICATION OF CONGENITAL CMV BRAIN DAMAGES IN ASYMPTOMATIC NEWBORNS**

**Fabiola Scaramuzzino**<sup>1</sup>, Giulia Lucignani<sup>2</sup>, Michela Di Pastena<sup>4</sup>, Donato Amonio<sup>3</sup>, Paolo Rossi<sup>3</sup>, Sara Chiurchiù<sup>1</sup>, Lorenza Romani<sup>1</sup>, Maia De Luca<sup>1</sup>, Patrizia D'Argenio<sup>1</sup>, Stefania Bernardi<sup>1</sup>, Daniela Longo<sup>2</sup>, Francesca I. Calò Carducci<sup>1</sup>

<sup>1</sup>Bambino Gesù Children's Hospital, Immune and Infectious Disease Unit, University Department of Pediatrics, DPUO, Rome, Italy, <sup>2</sup>Bambino Gesù Children's Hospital, Neuroradiology Unit, Imaging Department, Rome, Italy, <sup>3</sup>Bambino Gesù Children's Hospital, Research Unit of Congenital and Perinatal Infections, University Department of Pediatrics, DPUO, Rome, Italy, <sup>4</sup>Bambino Gesù Children's Hospital, Clinical Psychology Unit, Rome, Italy

**(ID 32) CEREBRAL MAGNETIC RESONANCE AND BLOOD BIOLOGICAL PARAMETERS AS PROGNOSTIC MARKERS OF BRAIN DAMAGE IN CONGENITAL HUMAN CYTOMEGALOVIRUS INFECTED FETUSES**

**Liliana Gabrielli**<sup>1</sup>, M. P. Bonasoni<sup>2</sup>, Giuliana Simonazzi<sup>3</sup>, Francesco Toni<sup>4</sup>, Tiziana D'Atena<sup>5</sup>, Gabriele Turello<sup>6</sup>, Federico Baiesi Pillastrini<sup>1</sup>, Caterina Eva Borgatti<sup>6</sup>, Tiziana Lazzarotto<sup>1,6</sup>

<sup>1</sup>Microbiology Unit, IRCCS St. Orsola Polyclinic, Bologna, Italy, <sup>2</sup>Operative Unit of Pathology, IRCCS Santa Maria Hospital, Reggio Emilia, Italy, <sup>3</sup>Department of Obstetrics and Gynecology, IRCCS S. Orsola Polyclinic, Bologna, Italy, <sup>4</sup>Pediatric Neuroradiology of Institute of Neurological Science, IRCCS Bellaria Hospital, Bologna, Italy, <sup>5</sup>LUM Metropolitan Laboratory, AUSL Bologna, Bologna, Italy, <sup>6</sup>Microbiology Unit, Department of Specialized, Experimental and Diagnostic Medicine, University of Bologna, IRCCS S. Orsola Polyclinic, Bologna, Italy

- (ID 33) **COCHLEA Study: Proof of principle of a fetal human inner ear model**  
**Lucia Grijpink<sup>1</sup>, E.S.A. van Beelen<sup>2</sup>, J.C.M.J. de Groot<sup>2</sup>, Heiko Locher<sup>2</sup>, Ann Vossen<sup>1</sup>**  
<sup>1</sup>Department of Medical Microbiology, Leiden University Medical Center, Leiden, Netherlands,  
<sup>2</sup>Department of Otorhinolaryngology, Leiden University Medical Center, Leiden, Netherlands
- (ID 34) **Evaluation of the performance of the Simplexa™ Congenital CMV Direct assay for neonatal diagnosis of congenital CMV infection**  
**Marianne Leruez-ville<sup>1</sup>, Tiffany Guilleminot<sup>1</sup>, Jacques Fourgeaud<sup>1</sup>**  
<sup>1</sup>Hospital Necker-enfants-malades, Paris, France, <sup>2</sup>EA 73 28 Université de Paris, Paris, France,  
<sup>3</sup>CMV Herpes virus Reference Laboratory, Paris, France
- (ID 37) **Neurodevelopmental outcome and epilepsy in children with congenital CMV infections: the prognostic value of neuroimaging**  
**Serena Salomè<sup>1</sup>, Clara Coppola<sup>1</sup>, Eleonora Capone<sup>1</sup>, Renata Rapillo<sup>2</sup>, Gaetano Terrone<sup>2</sup>,  
 Letizia Capasso<sup>1</sup>, Francesco Raimondi<sup>1</sup>**  
<sup>1</sup>Division of Neonatology, Department of Translational Medical Sciences, University of Naples  
 "Federico II", Naples, Italy, <sup>2</sup>Division of Pediatrics, Department of Translational  
 Medical Sciences, University of Naples "Federico II", Naples, Italy, Naples, Italy
- (ID 38) **NEURODEVELOPMENTAL OUTCOME IN CHILDREN WITH ASYMPTOMATIC CONGENITAL CYTOMEGALOVIRUS INFECTION: THE IMPORTANCE OF TESTING UNTIL 6 YEARS OF AGE TO DIAGNOSE AND SUPPORT**  
**Michela Di Pastena<sup>1</sup>, Fabiola Scaramuzzino<sup>2</sup>, Donato Amodio<sup>2</sup>, Maia De Luca<sup>2</sup>, Sara  
 Chiurchiù<sup>2</sup>, Lorenza Romani<sup>2</sup>, Stefania Bernardi<sup>2</sup>, Patrizia D'Argenio<sup>2</sup>, Teresa Grimaldi  
 Capitello<sup>1</sup>, Francesca I. Calò Carducci<sup>2</sup>**  
<sup>1</sup>Bambino Gesù Children's Hospital, Clinical Psychology Unit, Rome, Italy, <sup>2</sup>Bambino Gesù  
 Children's Hospital, Immune and Infectious Disease, Rome, Italy
- (ID 39) **Presentation of Monocentric Prospective Observational Research Study: the correlation between primary maternal CytoMegalovirus (CMV) infection and the onset of postnatal sensorineural hearing loss (SNHL)", through the use of amniotic fluid cells**  
**Laura Letizia Mazzarelli<sup>3</sup>, Giuseppe Maria Maruotti<sup>3</sup>, Serena Salomè<sup>4</sup>, Letizia Capasso<sup>4</sup>,  
 Eleonora Capone<sup>4</sup>, Rita Malesci<sup>1</sup>, Laura Sarno<sup>3</sup>, Maurizio Guida<sup>3</sup>, Elio Marciano<sup>1</sup>,  
 Francesco Raimondi<sup>4</sup>, Annamaria Franzè<sup>1</sup>, Marco Miceli<sup>1</sup>**  
<sup>1</sup>Unit of Audiology, Department of Neuroscience, Reproductive Sciences and Dentistry, University  
 of Naples "Federico II, Naples, Italy, <sup>2</sup>CEINGE-Biotecnologie Avanzate S.c.a.r.l., Naples, Naples, Italy,  
<sup>3</sup> High Risk Pregnancy Unit Department of Neuroscience, Reproductive Sciences and Dentistry,  
 University of Naples "Federico II", Naples, Italy, <sup>4</sup>Neonatology, Department of Translational  
 Medical Science, University of Naples "Federico II, Italy., Naples, Italy

**(ID 41) A Systematic Literature Review of the Humanistic Burden of Cytomegalovirus**

Philip Buck<sup>1</sup>, Evan Myers<sup>2</sup>, Jacek Mucha<sup>3</sup>, Monika Neumann<sup>4</sup>, Witold Lewandowski<sup>5</sup>, Magdalena Kaczanowska<sup>3</sup>, Elvira Schmidt<sup>4</sup>, Andrew Natenshon<sup>1</sup>, Carla Talarico<sup>1</sup>, John Diaz-Decaro<sup>1</sup>

*<sup>1</sup>Moderna, Inc., Cambridge, USA, <sup>2</sup>Duke University Medical Center, Durham, USA, <sup>3</sup>Certara, Krakow, Poland, <sup>4</sup>Certara, Loerrach, Germany, <sup>5</sup>Certara, Princeton, USA*

**(ID 44) PREDICTORS OF ABNORMAL NEUROIMAGING -MRI IN NEWBORNS WITH CONGENITAL CMV INFECTION**

Justyna Czech-Kowalska<sup>1</sup>, Dominika Jedlińska-Pijanowska<sup>1</sup>, Aleksandra Pietrzyk<sup>1</sup>, Beata Kasztelewicz<sup>1</sup>, Anna Dobrzańska<sup>1</sup>

*<sup>1</sup>The Children's Memorial Health Institute, Warszawa, Poland*

**(ID 45) Implementation of a systematic screening for CMV infection during pregnancy in a french level 3 maternity hospital**

Perrine Coste Mazeau<sup>1,2,3</sup>, Elodie Ribot<sup>3</sup>, Sebastien Hantz<sup>2,3</sup>, Sophie Alain<sup>2,3</sup>

*<sup>1</sup>Gynaecology and Obstetrics department, Limoges Univ. Hospital, Limoges, France, <sup>2</sup>UMR INSERM 1092, LIMOGES, FRANCE, <sup>3</sup>National Herpesviruses Reference Center, Limoges Univ. Hospital, LIMOGES, FRANCE*

**(ID 46) Potential of Anti-CMV Immunoglobulins Cytotect<sup>®</sup>, in vitro and in ex vivo first-trimester placenta model**

Perrine Coste Mazeau<sup>1,2,3</sup>, Chloe Jacquet<sup>2</sup>, Clotilde Muller<sup>2</sup>, Sébastien Hantz<sup>2,3</sup>, Sophie Alain<sup>2,3</sup>

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