

Table 1: Demographic, clinical and laboratory characteristics and neuroimaging findings of excluded and included participants:

	All (n= 1661)	Excluded (n=1091)	Included (n=570)	p-value
Gender (%)				
Male	777/1585 (49.0)	486/1016 (47.8)	291/569 (51.1)	0.36
Female	808/1585 (51.0)	530/1016 (52.2)	278/569 (48.9)	
Symptomatic at birth (%)	811/1661 (48.8)	451/1091 (41.3)	360/570 (63.2)	<0.001
Abnormal physical exam at birth	361/1540 (23.4)	193/981 (19.7)	168/559 (30.1)	<0.001
Splenomegaly	62/1540 (4.0)	27/981 (2.8)	35/559 (6.3)	0.004
Petechiae	125/1540 (8.1)	52/981 (5.6)	73/559 (13.1)	<0.001
Hypotonia	52/1540 (3.4)	28/981 (2.9)	24/559 (4.3)	0.32
Normal cranial MRI	444/972 (45.7)	169/402 (42.0)	275/570 (48.2)	0.06
cUS findings				
cUS WMA:				
- Focal/multifocal	68/1412 (4.8)	35/842 (4.2)	33/570 (5.8)	0.38
- Diffuse	30/1412 (2.1)	15/842 (1.8)	15/570 (2.6)	0.54
cUS Lenticulostriate vasculopathy	245/1412 (17.3)	116/842 (13.8)	129/570 (22.6)	<0.001
cUS Intracranial calcifications:				
- Single	53/1412 (3.8)	17/842 (2.0)	36/570 (6.3)	<0.001
- Multiple	59/1412 (4.2)	24/842 (2.8)	35/570 (6.1)	0.002
- Extensive	3/1412 (0.2)	1/842 (0.1)	2/570 (0.4)	0.67
cUS Ventriculomegaly				
- Mild-moderate >97 th centile	79/1412 (5.6)	35/842 (4.2)	44/570 (7.7)	0.03
- Severe >97th centile + 4 mm	3/1412 (0.2)	1/842 (0.1)	2/570 (0.4)	0.67
cUS Cerebellar hypoplasia	3/1412 (0.2)	1/842 (0.1)	2/570 (0.4)	0.67
cUS Enlargement of the cisterna magna	8/1412 (0.6)	2/842 (0.2)	6/570 (1.1)	0.26
cUS Microcephaly	22/1412 (1.6)	11/842 (1.3)	11/570 (1.9)	0.14
cUS Periventricular cysts	110/1412 (7.8)	48/842 (5.7)	62/570 (10.9)	<0.001
cUS Lissencephaly / other migrational abnormalities	5/1412 (0.4)	1/842 (0.1)	4/570 (0.7)	0.47
cUS Polymicrogyria	7/1412 (0.5)	3/842 (0.4)	4/570 (0.7)	0.61
cUS Caudothalamic / subependymal cysts / germinolysis	141/1412 (10.0)	53/842 (6.3)	88/570 (15.4)	<0.001
HL at birth	438/1419 (30.9)	285/866 (32.9)	153/553 (27.7)	0.73
Choriorretinitis at birth	16/1455 (1.1)	9/908 (1.0)	7/547 (1.3)	0.58
Platelets (cs/mm ³) (median, IQR)	226000.00 [141000.00, 293000.00]	226000.00 [144500.00, 294500.00]	225000.00 [130250.00, 287750.00]	0.352

Annex 2: Illustration of how to calculate the risk of sequelae in a specific patient according to the cCMVnet score

Example 1:

Child with cCMV infection, gestational age 35 weeks and 2 days.

At birth he presented with normal anthropometry and physical examination. Cranial ultrasound (cUS) showed isolated lenticulostriate vasculopathy and cranial MRI did not describe any abnormal finding. Automated auditory brainstem response (AABR) described normal hearing.

cCMVnet score value (table 3) = 0 (none findings selected in multiple logistic regression) = 0 points.

Estimated probability of sequelae according to 0 points (figure 3) = 12.5% (IC 95 %: 6.7–22.2)

Clinical findings	none	0
Neuroimaging	Lenticulostriate vasculopathy (cUS)	0
AABR	Normal hearing	0
cCMVnet score value		0
Probability of sequelae		12.5% (IC 95 %: 6.7–22.2)

Example 2:

Child with cCMV infection, gestational age 38 weeks and 5 days.

At birth he presented with normal anthropometry and physical examination. Cranial ultrasound (cUS) showed caudothalamic cysts and in the cranial MRI there is no other findings. Automated auditory brainstem response (A-ABR) described normal hearing.

cCMVnet score value (table 3) = 1.383 (OR caudothalamic cysts) = 1.383 points.

Estimated probability of sequelae according to 1.383 points (figure 3) = 14.5% (IC 95 %: 8.2–24.4)

Clinical findings	none	0
Neuroimaging	Caudothalamic cysts (cUS)	1.383
AABR	Normal hearing	0
cCMVnet score value		1.383
Probability of sequelae		14.5% (IC 95 %: 8.2–24.4)

Example 3:

Child with cCMV infection, gestational age 37 weeks and 0 days.

At birth he presented with - 1.9 Z-score newborn weight and microcephaly (Z-Score - 2.3) at physical examination and severe hypotonia. Cranial ultrasound and cranial MRI showed ventriculomegaly and microcephaly. Automated auditory brainstem response (A-ABR) described mild and unilateral hearing loss.

cCMVnet score value (table 3) = 2.070 (OR microcephaly) + 3.225 (OR hypotonia) + 3.520 (OR MRI ventriculomegaly) + 13.872 (OR mild hearing loss) = 22.687 points.

Estimated probability of sequelae according to 22.687 points (figure 3) = 59.7% (IC 95 %: 33.9–81.1)

Clinical findings	Microcephaly	2.070
	Hypotonia	3.225
Neuroimaging	Ventriculomegaly (MRI)	3.520
AABR	Mild unilateral hearing loss	13.872
cCMVnet score value		22.687
Probability of sequelae		59.7% (IC 95 %: 33.9–81.1)