

Cytomegalovirus glycoprotein N (gN) genotypes and clinical feature in Argentina. A. L. Distéfano, C. A. Gonzalez, F. Pardon. INEI Dr "Carlos G. Malbrán" .Conference on Congenital CMV Infection. Paris Descartes University-París (Francia)

CMV infection of newborns can occur in uterus through transplacental transmission, during childbirth or postnatal. CMV is the most congenital cause of malformations and the infections may result in death of fetus in uterus. The purpose of this study is to analyze the distribution of gN genotypes in infants with congenital (IC) or perinatal infections (IP) and its relation to clinical symptoms.

The urine samples from 41 infants were studied by virus isolation in human foreskin fibroblasts and n-PCR. In some samples the PCR was also performed in blood spots. CMV gN genotyping was performed by restriction fragment length polymorphism. When the sample was taken, all patients were symptomatic and 8 were HIV positive.

The distribution of gN genotypes was: 7 type gN1, 11 types 3a, 6 types 3b, 5 types 4a, 3 types 4b and 9 types 4c. The total of the samples 12 (29, 9%), were studied retrospectively in dried blood spot, 8 were IC, the remaining 4 were IP.

We conclude that the distribution of genotypes in the population studied in Argentina was absent GN2 type. The gN3a and the gN4c types were the most frequent in the patients studied. Among HIV patients, viral type gN3 and gN4 were also the most frequent. Excluding HIV-positive patients, those with more severe clinical symptoms are associated with the group gN4. This is the first study in Argentina of the genotype distribution between infants with IC or IP, but was limited by the number of samples studied.

	Viral Types RN-15 days							retrospectively sangre seca						
	Ur: aislamiento, PCR)							Ur: aislamiento, PCR						
	1	2	3a	3b	4a	4b	4c	1	2	3a	3b	4a	4b	4c
congenital infection	3	0	7	4	1	2	2	1s	0	1s	0	2s/*	1s	3s
perinatal infection								1*	0	0	1*	1**	0	0
I Congenital o Perinatal	2	0	3	0	1	0	3	0	0	0	0	0	0	0

11 casos retrospectivos, 8 congénitos, 3 perinatales

19 RN, 9 mayores que 15 días Ic o IP

* nacio normal

** sintomas H. petequias DR bajo peso 40 días

• 2 pacientes 3a son HIV +, 1 paciente 4^a es hiv+, 1 paciente 4c es hiv + : 4 pacientes hiv+ son no determinados

Total de hiv:6 y dos son congénitos

gN genotypes distribution among infected newborns

Viral T types	1	3a	3b	4a	4b	4c	total
N°cases	6	11	5	5	3	8	38
I Congenital	3	8	4	3	3	5	26
I. perinatal	1	-	1	1	-	-	3
I Congenital o Perinatal	2	3	-	1	-	3	9