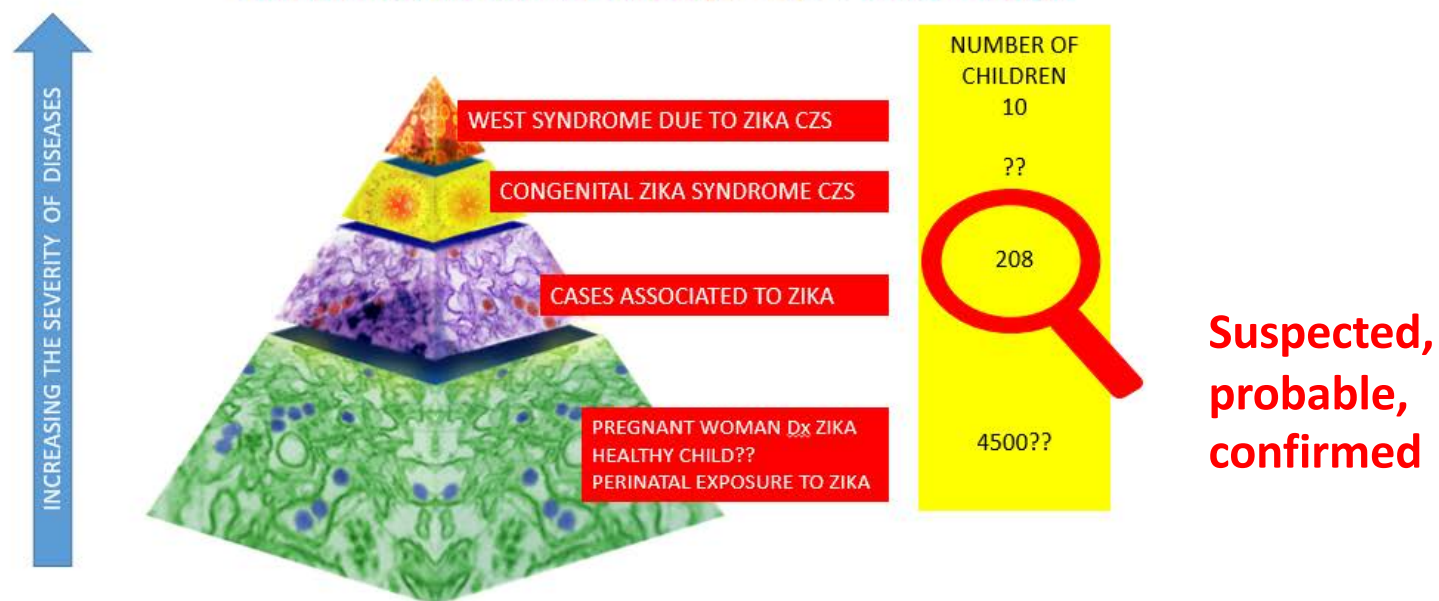


MORBILITY OF CONGENITAL ZIKA IN CHILDREN LESS THAN 3 YEARS IN EQUATOR, 2015?? 2016 - 2018



2016: 241 PREGNANT WOMEN
2017: 943 total



The team of the Children's Hospital HFIB

Neurology

Physiatrics

Genetics

Traumatology

Ophthalmology

Neurophysiology: PEATC y EVP

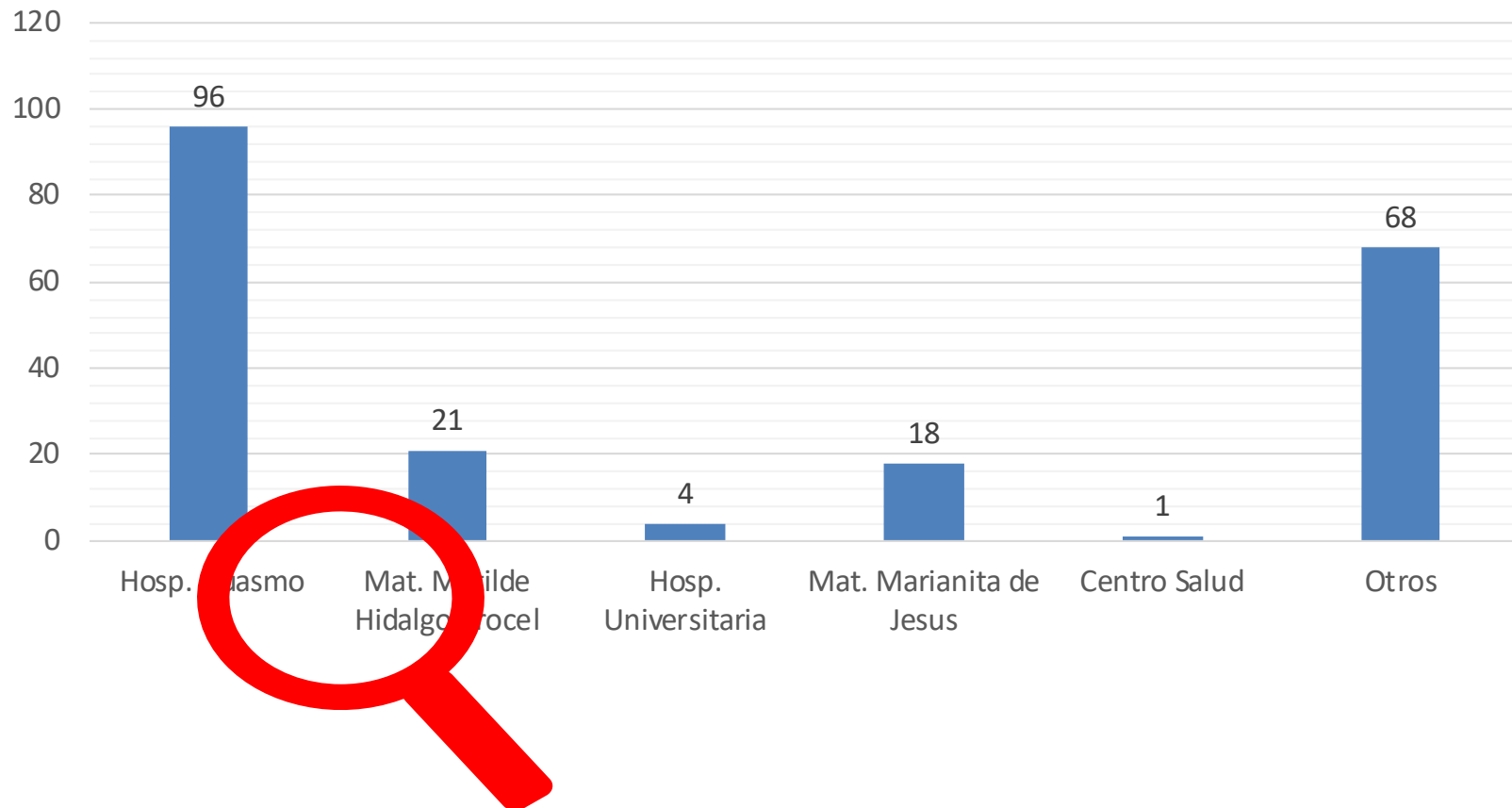
Nutrition

Gastroenterologist

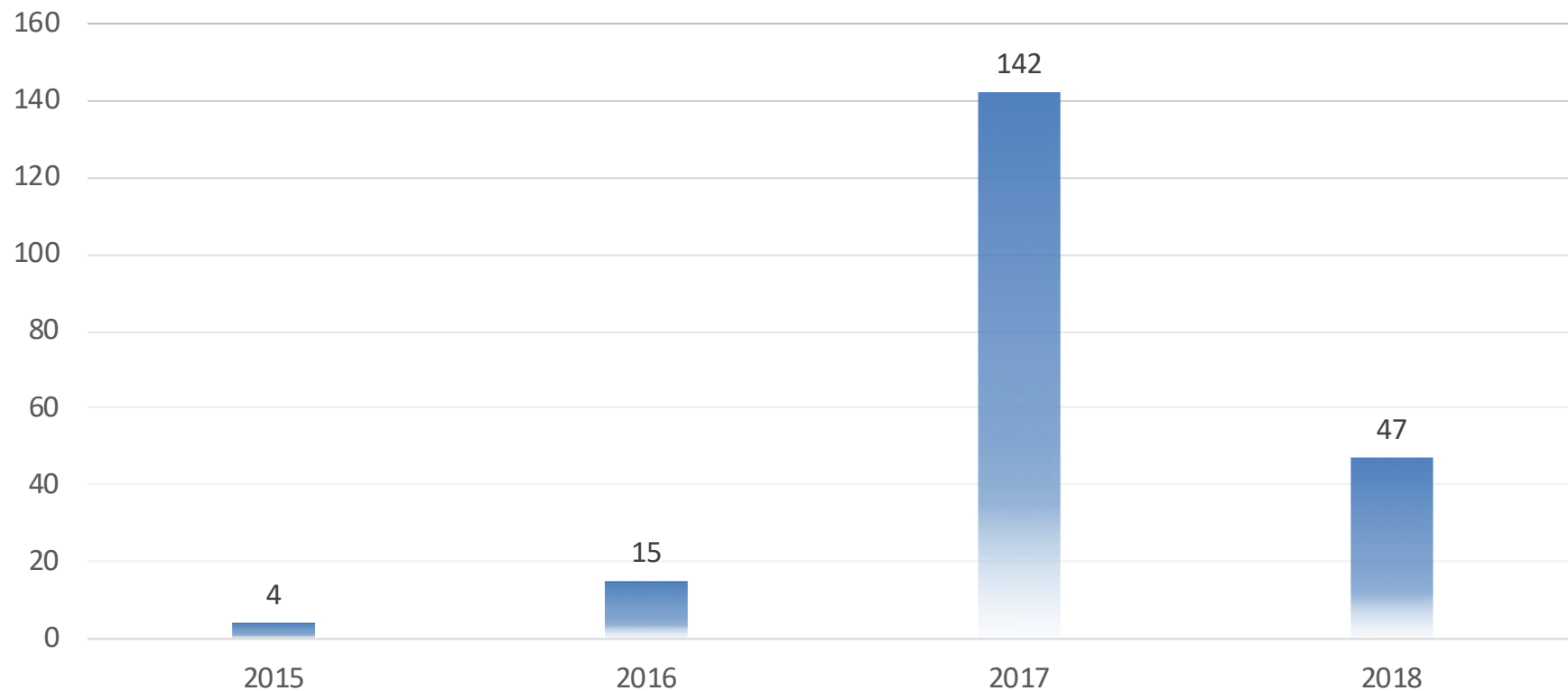
Psicosocial support

Infectious Disease

Where the children come?? From the hospitals included in the protocol



**YEAR OF BIRTH: 208 CHILDREN FOLLOWED AT THE
CHILDREN'S HOSPITAL DR FRANCISCO DE ICAZA
BUSTAMANTE, GUAYAQUIL, ECUADOR**





Children cohort referred as Microcephaly or zika related. HFIB



Patients	No data	HC ≤ 32	Total
172	36	82	208

Mothers with symptoms	Mothers without symptoms	No data	Total HC ≤ 32
44	31	7	82

Mothers PCR Zika +	Mothers PCR Zika -	No data	Total Mothers with symptoms HC ≤ 32
10	6	28	44



Ecuadorian patients

Mother: zika, pregnancy March/17
Birth date: 10/02/2017
Age: 13 months
Normal HC
Last consultation: 10/12/2018

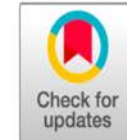


AMERICAN
SOCIETY FOR
MICROBIOLOGY



OBSERVATION

Clinical Science and Epidemiology



Exhaustive TORCH Pathogen Diagnostics Corroborate Zika Virus Etiology of Congenital Malformations in Northeastern Brazil

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MORBILITY OF CONGENITAL ZIKA IN CHILDREN LESS THAN 3 YEARS IN EQUATOR, 2015?? 2016 - 2018



Cas e	Mother's sympt pregnancy	GA at birth (weeks)	HC at birth (cm(z-score))
1	8 w	39	31(-3.4)
2	no	40	32(-2.5)
3	no	40	27.5(-6.4)
4	10 w	38	32(-2.0)
5	no	39	30
6	16	37	25
7	no	38	32
8	28w	38	29
9	24	37	29.5
10	no	34	sd

Brain US, CT scan and NMR scan findings

Most of them ventriculomegaly, decreased brain volume, subcortical calcifications 8/10

Agenesis and hipoplasia of corpus callosum

pachygyria, polymicrogyria, agiria, lissencephaly

Age at WS diagnosis (months) 7-12, Spasms on salvas in all, except one: hiperextension, Brachioligodactylia, genu valgum, hip dysplasia, dysphagia,

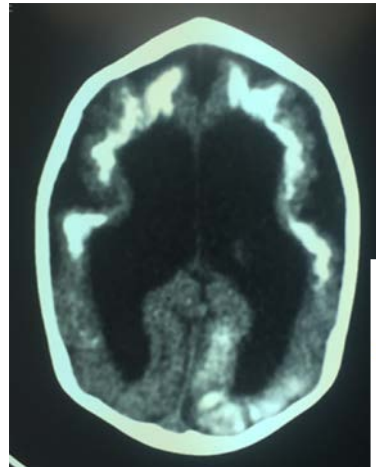
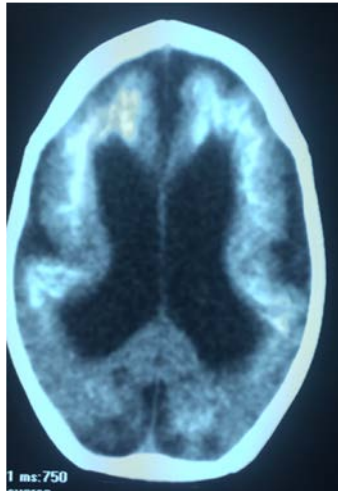
PCR mother 1 pos 2 neg 5 NR.

Infants: Positive: 3 IgM CSF, 1 PCR Blood and CSF, 3 IgM blood.

Hypsarrhythmia 10/10 patients. Brainstem auditory evoked

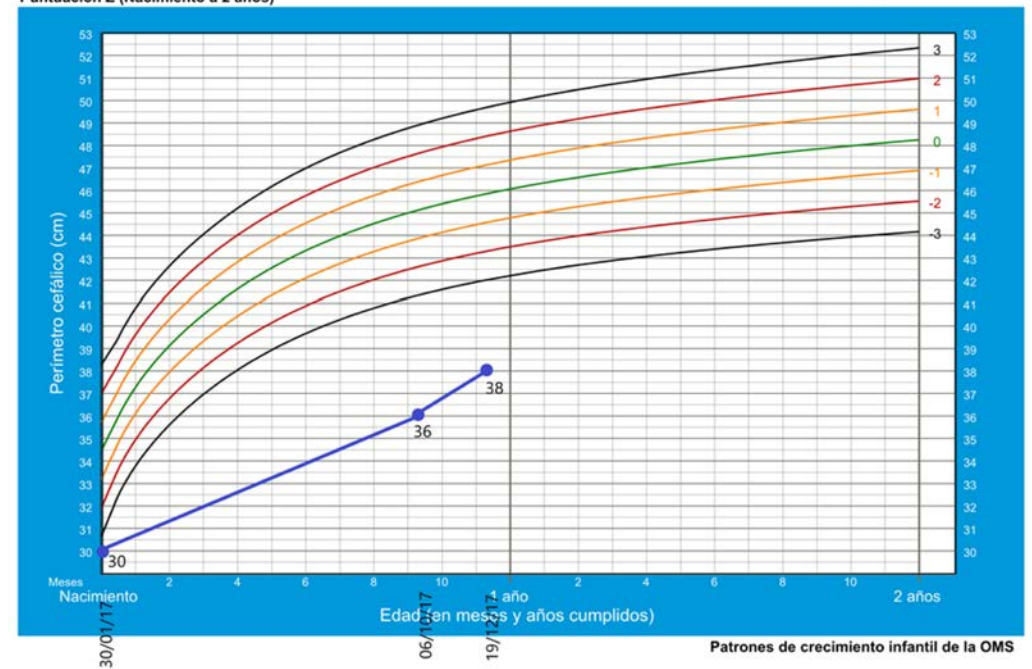
potentials altered 3/10 Visual evoked potential altered 4/10

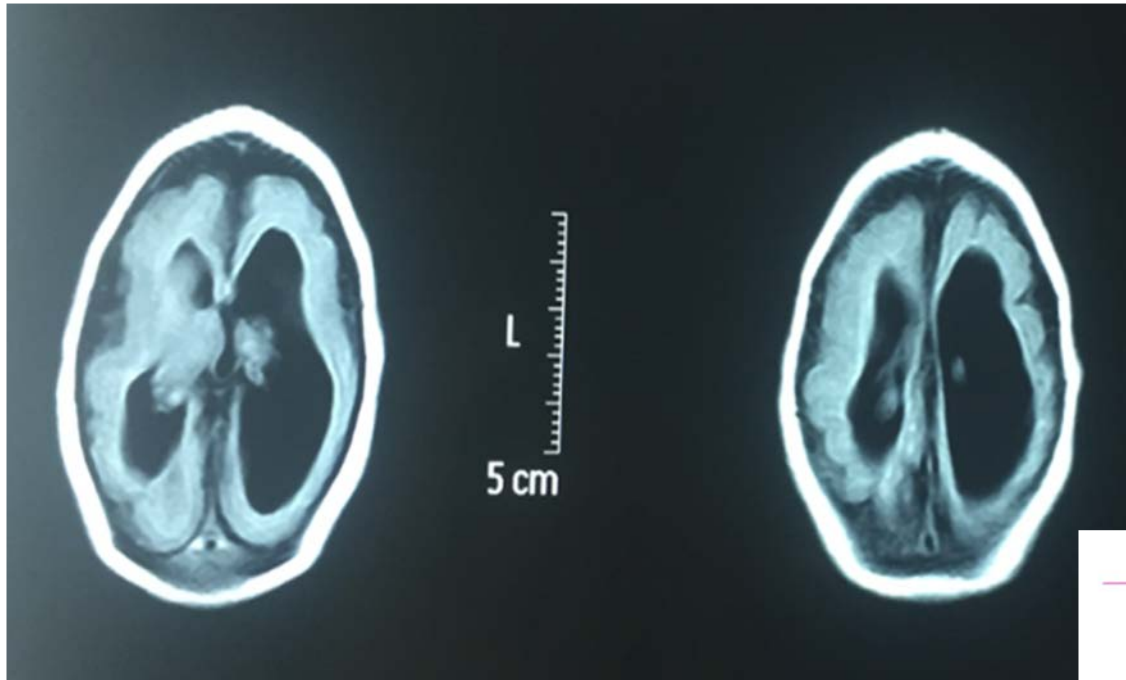
Zika virus (ZIKV) has been associated with microcephaly and neuro-developmental abnormalities. West syndrome (WS) is a severe epileptic syndrome characterized by the triad of infantile spasms, hypsarrhythmic electroencephalogram (EEG), and mental retardation. ZIKV laboratory diagnosis in pregnant women is difficult in low-middle resource countries.



Perímetro cefálico para la edad Niños

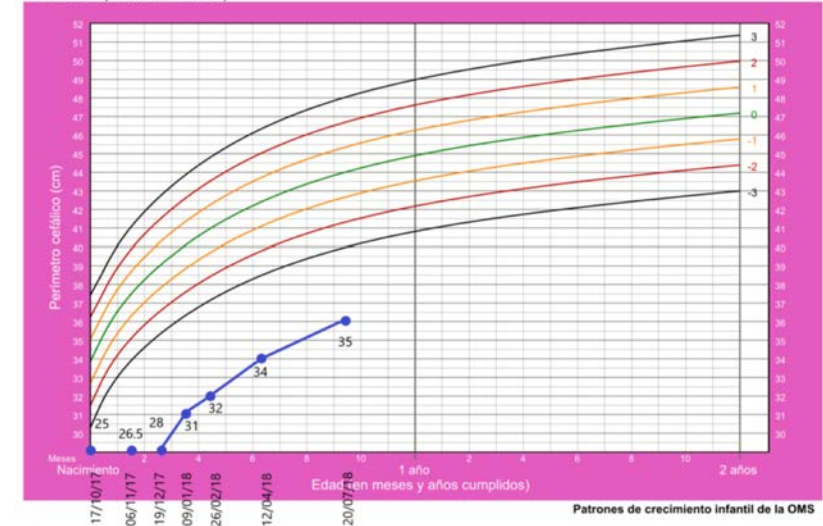
Puntuación Z (Nacimiento a 2 años)





Perímetro cefálico para la edad Niñas

Puntuación Z (Nacimiento a 2 años)



ZIKAction Consortium Meeting - Rio de Janeiro, 3-5 November 2018

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 734857.



- This information is subject to limitations:
 1. The data is not complete principally
 2. The laboratory capacity and quality (interpretation) doesn't help to have confirmed cases.

**These children need an expansion of available health care.
Multidisciplinary system of support engaging**

- Parents
- health care providers
- educational resources

We need to address

FACTORS that affect the quality of life for surviving children and their families

Obrigada

