

Consequences of in utero Zika virus exposure and adverse pregnancy and early childhood outcomes: a prospective cohort study

Supplementary Material

Supplementary Table S1. A. Maternal and B. Neonatal characteristics of 315 women with symptomatic, RT-PCR confirmed ZIKV infection during pregnancy who included their infant in pediatric cohort study and 203 women with symptomatic, RT-PCR confirmed ZIKV infection during pregnancy who declined participation of their infant in the pediatric cohort study

A. Maternal characteristics		Mothers of infants included in pediatric cohort study N=315 (%)	Mothers of infants not included in pediatric cohort study N=203 (%)	p-value
Age at time of pregnancy (years)				
	Mean \pm SD	30.0 \pm 6.4	29.1 \pm 5.9	0.10
	Interquartile range	25.4 – 34.7	24.8 – 33.4	
Occupation – n (%)				0.20
	Student	12 (3.8)	9 (4.8)	
	Self-employed/ business owner/ farmer	15 (4.8)	16 (6.9)	
	Executive/ highly skilled worker	31 (9.8)	19 (10.4)	
	Intermittent profession	33 (10.5)	18 (10.0)	
	Salaried employee	120 (38.1)	57 (26.4)	
	Not employed	97 (30.8)	79 (39.3)	
	Unknown or declined to respond	7 (2.2)	5 (2.2)	
Educational attainment of mother – n (%)				
	Primary	18 (5.7)	-	
	Secondary	38 (12.1)	-	
	Tertiary	60 (19.0)	-	
	Unknown or declined to respond	199 (63.2)	-	
Educational attainment of father – n (%)				
	Primary	11 (3.5)	-	
	Secondary	33 (10.5)	-	
	Tertiary	27 (8.6)	-	
	Unknown or declined to respond	244 (77.5)	-	
Residence – n (%)				<0.001
	Guadeloupe	139 (44.1)	98 (45.9)	
	Martinique	175 (55.6)	85 (45.0)	
	French Guiana	3 (1.0)	20 (9.1)	
Parity – n (%)*				0.97
	0	75 (23.8)	52 (25.6)	
	1	86 (27.3)	53 (26.1)	
	2	73 (23.2)	46 (22.7)	
	3+	81 (25.7)	52 (25.6)	
Previous adverse pregnancy outcomes – n (%)				
	Congenital abnormalities	4 (1.3)	2 (0.9)	1
	Stillbirth	7 (2.2)	1 (0.9)	0.23
	Medical termination of pregnancy	3 (1.0)	6 (3.0)	0.17
Lifestyle practices during 2016-2017 pregnancy – n (%)				
	Alcohol consumption	0 (0)	1 (0.9)	0.82
	Drug use	3 (1.0)	3 (1.3)	0.89
	Smoking	11 (3.5)	12 (5.3)	0.28
	Use of mosquito repellents	259 (82.7)	165 (81.6)	0.94
	Use of larvicides	193 (62.3)	123 (65.2)	0.87
B. Neonatal characteristics		Included in pediatric cohort study N=320 (%)	Not included in pediatric cohort study N=207 (%)	p-value
Gestational age (weeks)				
	Mean \pm SD	39.0 \pm 1.4	38.4 \pm 2.4	0.002

Delivery type – n (%)*				
	Cesarean	60 (18.8)	35 (17.8)	0.81
Sex – n (%)				
	Male	163 (50.9)	103 (48.9)	0.95
Birth weight (g)				
	Mean	3159 ± 466	3039 ± 612	0.02

Supplementary Table S2. Categorization of severity of abnormalities

Severe sequelae or fatal outcome
Not liveborn or post-natal death
Multiple and persistent sequelae, abnormal imaging
Multiple and persistent sequelae, normal imaging
Isolated and persistent non-febrile seizures
Spina bifida at birth (alive at 24M, no abnormalities reported)
Club foot at birth (alive at 24M, no abnormalities reported)
Club foot at birth (no information after birth)
Major abnormalities
One selected abnormality and abnormal imaging
Two isolated selected abnormalities, normal imaging
Two isolated selected abnormalities, no imaging information
Microcephaly at birth, lost to follow up (no information after birth)
Isolated and persistent post-natal onset microcephaly
Isolated, single occurrence non-febrile seizures (at 24M)
Mild abnormality
Isolated abnormal imaging (+ transient swallowing abnormality at 2M)
Isolated eye abnormality (+ transient swallowing abnormality at 2M)
Single isolated abnormality
Abnormal imaging (no other abnormality)
Isolated microcephaly at birth (+ transient swallowing abnormality at 2M)
No abnormality reported
Transient swallowing abnormality at 2M
Non-pathological imaging finding
No abnormalities reported
Unknown
Unknown (no abnormality information available)