

1 Appendices

2 Supplementary tables

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4 TableA 1. Fatal cases associated to Dengue during 2011 outbreak.

Case	Location	Date at illness onset	Sick days at death	Sex	Age (yr)	Diagnostic test	DENV-type	Laboratory data	Sign and Symptoms	Final Diagnostic
Patient 1	West Panama-El Tecal	Feb	4 days	F	13	Epidemiologic link	NI	NI	Aplastic crisis, respiratory distress	DF
Patient 2	San Miguelito-Santa Marta	Jul	4 days	M	46	RT-PCR / IgM	DENV-2	HB:12.9; HCT:41.3; PLT:28,000.	Fever, malaise, chills, arthralgia, upper gastrointestinal bleeding, thrombocytopenia	DHF
Patient 3	Metropolitan area-24 de dic.	Jul	5 days	M	8	RT-PCR / IgM	DENV-2	HB: 13.2; HCT:37.8; PLT:27,000.	Fever, headache, abdominal pain, cutaneous rash, weakness	DSS / DHF
Patient 4	San Miguelito-Praderas del Rocio	Jul	8 days	M	42	RT-PCR / IgM	DENV-2	NI	NI	Septic Shock. DHF
Patient 5	Herrera-Pese	Jul	4 days	F	31	RT-PCR	DENV-3	NI	NI	DHF
Patient 6	Bocas del Toro- Isla Pastor	Aug	6 days	M	69	IgM / IgG	NI	NI	NI	DF / DHF
Patient 7	Metropolitan area-Ciudad Radial	Aug	5 days	F	52	IgM	NI	NI	NI	DSS / DHF
Patient 8	Herrera-Via Circunvalacion	Aug	9 days	F	23	IgM	NI	NI	NI	DF / DHF
Patient 9	Colon-Calle 8 central	Aug	14 days	M	45	IgM	NI	NI	Pneumonia	DHF
Patient 10	San Miguelito-Valle de Urraca	Aug	5 days	F	47	RT-PCR / IgM / IgG	DENV-2	WBC: 3.09; HB:15.2; HCT:44.3; PLT:20,000	Fever, headache, myalgia, arthralgia, abdominal pain, exantema, weakness, hiporexia	DHF
Patient 11	Metropolitan area-Chilibre-San Vicente	Sept	42 days	F	50	IgM	NI	NI	NI	DHF
Patient 12	Herrera-Pese-Cascajillo	Sept	22 days	M	23	IgM / IgG	NI	NI	NI	DHF
Patient 13	East Panama-Pacora	Sept	4 days	M	26	IgM / IgG	NI	NI	NI	DF
Patient 14	Metropolitan area-Guarumalito	Oct	15 days	M	74	NS1 / IgM / IgG	NI	HB: 15.3; PLT: 7,000; HTO:47.8	Fever, chills, headache, vomiting, conjunctivitis	Dengue with alarm sign / DHF
Patient 15	San Miguelito-Loma 9	Oct	9 days	M	77	NS1 / IgM	NI	HCT: 21.0; PLT: 78,000; HB: 7.1	NI	DHF
Patient 16	Cocle-Calle Sofre	Oct	6 days	M	28	IgM	NI	NI	Fever, headache, retro-orbital pain, myalgia, arthralgia, exanthema, abdominal pain, blood in feces and vomiting, hepatomegaly, splenomegaly	DHF

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Patient 17	West Panama- Burunga-	Oct	6 days	M	32	RT-PCR	DENV- 2	WBC: 26.36; HB:12.7; HCT:37; PLT: 112,000;	Fever, malaise, blood in feces, jaundice	DF / DHF
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6 Table A 2. Haemagglutination assay results of Dengue RT-PCR negative acute samples  
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<b>Antibodies detected by HI</b>	<b>Number of Dengue negative samples detected</b>
DENV-1	2
DENV-2	10
DENV-3	2
DENV-4 +VEE	1
YFV	2
DENV-2 + YFV	1
VEE + Cross reaction	1
SLE	2
Cross reaction	20
Dengue secondary response	12
Negative	44
Total of samples	97

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TableA 3. Dengue serotypes by province detected by qRT-PCR during 2011

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Regions	DENV1	DENV-2	DENV-3
Panamá Metro	50	148	10
Panamá Oeste	0	13	9
Herrera	0	12	5
Los Santos	2	19	0
Cocle	5	4	2
Chiriquí	1	0	0
Kuna Yala	0	0	3
Colon	1	0	1
Veraguas	0	1	0
<b>Total</b>	<b>59</b>	<b>197</b>	<b>30</b>

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