

SUPPLEMENTAL TABLE 1

Demographic characteristics and preexisting conditions of dengue patients with and without HIV infection

Variables	DENV-HIV cases (N = 10)	%	DENV controls (N = 40)	%	COR	P value	95% CI
Median age* (IQR)	47 (39–58)	–	44 (38–55)	–	1.19	0.136	0.95–1.50
Age groups							
30–39	3	30	16	40	–	–	–
40–49	3	30	6	15	–	–	–
50–59	2	20	13	32.5	–	–	–
≥ 60	2	20	5	12.5	–	–	–
Gender*							
Female	1	10	4	10	–	–	–
Laboratory diagnosis*							
PCR+	3	30	12	30	–	–	–
Serology+	7	70	28	70	–	–	–
IgG							
IgG+	9	90	34	85	1.72	0.657	0.16–18.75
Year of dengue infection*							
2005–2006	6	60	24	60	–	–	–
2007–2008	4	40	16	40	–	–	–
Patient type*							
Inpatient	9	90	36	90	–	–	–
Outpatient	1	10	4	10	–	–	–
Diabetes mellitus							
Yes	1	10	3	7.5	1.33	0.803	0.14–12.82
Hypertension							
Yes	1	10	8	20	0.428	0.46	0.045–4.05
Hyperlipidemia							
Yes	0	0	4	10	–	–	–
Asthma							
Yes	1	10	0	0	–	–	–
Cardiac disorder							
Yes	1	10	1	2.5	–	–	–
Lung disorder							
Yes	4	40	0	0	–	–	–
Liver disorder							
Yes	0	0	1	2.5	–	–	–
Renal disorder							
Yes	2	20	2	5	4	0.166	0.56–28.40
Median HIV months prior to dengue (IQR)	36.5 (16–52.75)		NA	–	–	–	–
Median HIV viral load (IQR)	50 (50–251)		NA	–	–	–	–
Median CD4 count 6 months before dengue (IQR)	123 (79–303)		NA	–	–	–	–
Median CD4 count 6 months after dengue (IQR)	144 (74.5–251)		NA	–	–	–	–
Median lowest CD4 count recorded (IQR)	45 (37–75.5)		NA	–	–	–	–
AIDS	7	70	0	0	–	–	–

AIDS = acquired immunodeficiency syndrome; CI = confidence interval; COR = conditional odds ratio; DENV = dengue virus; HIV = human immunodeficiency virus; IQR = interquartile range.
*Matched variables.

SUPPLEMENTAL TABLE 2
Clinical characteristics of dengue patients with and without HIV infection at presentation

Variables	DENV-HIV cases (N = 10)	%	DENV controls (N = 40)	%	COR	P value	95% CI	ACOR	P value	95% CI
Hemorrhagic manifestation										
Yes	1	10	27	67.5	0.08	0.051	0.01–1.10	0.07	0.09	0.01–1.48
Any rash										
Yes	1	10	19	47.5	0.12	0.053	0.01–1.03	0.11	0.100	0.01–1.54
Leucopenia										
Yes	5	50	30	75	0.33	0.125	0.80–1.36	0.64	0.574	0.13–3.05
Nausea/vomiting										
Yes	4	40	23	57.5	0.47	0.320	0.11–2.08	0.41	0.293	0.80–2.15
Aches and pains										
Yes	5	50	32	80	0.26	0.073	0.06–1.14	0.34	0.18	0.07–1.64
Any warning sign										
Yes	7	70	25	62.5	1.40	0.66	0.31–6.30	1	1	0.20–5.08
Abdominal pain/tenderness										
Yes	2	20	7	17.5	1.16	0.86	0.22–6.23	1.12	0.92	0.11–11.21
Persistent vomiting										
Yes	0	0	0	0	–	–	–	–	–	–
Clinical fluid accumulation										
Yes	0	0	0	0	–	–	–	–	–	–
Mucosal bleed										
Yes	1	10	10	25	0.33	0.323	0.04–2.96	0.313	0.30	0.035–2.84
Lethargy										
Yes	4	40	9	22.5	2.24	0.278	0.52–9.57	2.4	0.28	0.50–11.67
Hepatomegaly										
Yes	1	10	4	10	1	1	0.07–13.72	1.74	0.80	0.03–133.5
Hematocrit rise with rapid platelet drop										
Yes	1	10	5	12.5	0.77	0.824	0.08–7.76	1.41	0.792	0.11–18.40
Hypoproteinemia										
Yes	3	30	14	35	0.79	0.763	0.17–3.62	0.95	0.954	0.16–5.54
Thrombocytopenia										
Yes	7	70	35	87.5	0.35	0.204	0.07–1.78	0.49	0.453	0.08–3.17
Tachycardia										
Yes	3	30	8	20	1.89	0.47	0.34–10.65	1.32	0.801	0.15–11.58
Hypotension										
Yes	2	20	5	12.5	1.77	0.545	0.28–11.12	1.20	0.868	0.11–13.95
Mechanical ventilation										
Yes	0	0	0	0	–	–	–	–	–	–
Respiratory distress										
Yes	0	0	0	0	–	–	–	–	–	–
Severe bleeding										
Yes	0	0	2	5	–	–	–	–	–	–
Severe organ involvement										
Yes	0	0	2	5	–	–	–	–	–	–

ACOR = adjusted conditional odds ratio; CI = confidence interval; COR = conditional odds ratio; DENV = dengue virus; HIV = human immunodeficiency virus.
ACOR adjusted by days post fever onset at first dengue presentation.

SUPPLEMENTAL TABLE 3
Clinical characteristics of dengue patients with and without HIV infection during hospitalization

Variables	DENV-HIV cases (N = 10)	%	DENV controls (N = 40)	%	COR	P value	95% CI	ACOR	P value	95% CI
Leucopenia										
Yes	7	70	33	82.5	0.50	0.384	0.10–2.40	0.94	0.940	0.17–5.24
Nausea/vomiting										
Yes	5	50	26	65	0.53	0.381	0.13–2.20	0.37	0.214	0.08–1.79
Aches and pains										
Yes	8	80	34	85	0.72	0.707	0.13–4.08	0.53	0.546	0.07–4.23
Any warning sign										
Yes	8	80	29	72.5	1.65	0.597	0.26–10.51	1.20	0.852	0.18–7.91
Abdominal pain/tenderness										
Yes	4	40	12	30	1.56	0.549	0.37–6.66	1.09	0.933	0.15–7.68
Persistent vomiting										
Yes	0	0	3	7.5	–	–	–	–	–	–
Lethargy										
Yes	5	50	9	22.5	3.42	0.106	0.77–15.18	2.49	0.254	0.52–11.89
Mucosal bleed										
Yes	1	10	16	40	0.17	0.110	0.02–1.48	0.18	0.133	0.02–1.69
Hypoproteinemia										
Yes	5	55.6	18	54.6	0.73	0.689	0.15–3.44	0.71	0.70	0.13–3.91
Thrombocytopenia										
Yes	10	100	40	100	–	–	–	–	–	–
Tachycardia										
Yes	7	70	8	20	–	–	–	–	–	–
Respiratory distress										
Yes	1	10	2	5	2	0.571	0.18–22.06	3.83	0.325	0.26–55.77
Mechanical ventilation										
Yes	0	0	0	0	–	–	–	–	–	–

ACOR = adjusted conditional odds ratio; CI = confidence interval; COR = conditional odds ratio; DENV = dengue virus; HIV = human immunodeficiency virus.
ACOR adjusted by days post fever onset at first dengue presentation.

SUPPLEMENTAL TABLE 4
Laboratory characteristics of dengue patients with and without HIV infection at presentation

Variable (IQR)	DENV-HIV cases (N = 10)	DENV controls (N = 40)	COR	P value	95% CI	ACOR	P value	95% CI
Temperature (°C)	37.7 (37.4–38.4)	37.8 (37–38.6)	0.95	0.919	0.38–2.37	0.85	0.766	0.30–2.42
Respiratory rate/minute	19 (18–20)	20 (18–20)	0.49	0.128	0.20–1.23	0.22	0.215	0.02–2.38
Oxygen saturation (%)	99 (98–99.5)	97.5 (96–98.3)	1.97	0.281	0.57–6.76	–	–	–
Proportion of lymphocytes (%)	17.2 (8.4–29.3)	21.6 (17.4–28.7)	0.96	0.338	0.87–1.05	1.01	0.892	0.91–1.12
Proportion of basophils (%)	0.3 (0.2–0.5)	0.1 (0–0.5)	1.86	0.186	0.74–4.68	1.83	0.198	0.73–4.62
Platelet (10 ⁹ /L)	71.5 (44.8–111)	60 (33–73.5)	1.01	0.093	0.99–1.03	1.02	0.211	0.99–1.04
Serum urea (mmol/L)	5.9 (3.7–11.6)	3.7 (2.7–4.7)	1.50	0.077	0.96–2.34	1.38	0.321	0.73–2.58
Serum creatinine (mmol/L)	98 (97–101.5)	100.5 (98–105)	0.83	0.193	0.63–1.10	0.80	0.185	0.58–1.11
Serum bilirubin	13 (9–16)	13 (10.3–15.8)	1.05	0.409	0.93–1.18	1.04	0.597	0.89–1.22
Serum AST (U/L)	35 (22–158)	89 (54–189.5)	1	0.663	0.99–1.00	1	0.965	0.99–1.00
Serum ALT (U/L)	42 (20–127)	60 (42–99.5)	0.99	0.620	0.99–1.01	1	0.949	0.99–1.01
Serum protein (g/L)	63.5 (60.8–69.3)	63 (59–70)	0.97	0.325	0.91–1.03	0.98	0.466	0.91–1.04
Serum albumin (g/L)	33 (27–35)	36 (35–39)	0.87	0.118	0.73–1.04	0.93	0.461	0.76–1.13

ACOR = adjusted conditional odds ratio; ALT = alanine aminotransferase; AST = aspartate aminotransferase; CI = confidence interval; COR = conditional odds ratio; DENV = dengue virus; HIV = human immunodeficiency virus; IQR = interquartile range.
ACOR adjusted by days post fever onset at first dengue presentation.

SUPPLEMENTAL TABLE 5

Laboratory characteristics of DENV patients with and without HIV infection during hospitalization

Variables (IQR)	DENV-HIV cases (N = 10)	DENV controls (N = 40)	COR	P value	95% CI	ACOR	P value	95% CI
Respiratory rate/minute	18 (18–20)	18 (16–18)	1.25	0.256	0.85–1.86	1.25	0.318	0.80–1.95
Oxygen saturation (%)	95 (94–96)	97.5 (96–98)	0.66	0.054	0.43–1.01	0.72	0.133	0.46–1.11
White cell count (10 ⁹ /L)	3 (1.7–4.0)	2.3 (1.9–3)	1.31	0.224	0.85–2.01	1.13	0.624	0.69–1.85
Proportion of lymphocytes (%)	33.8 (20.9–44.2)	38.8 (31.6–49.4)	0.95	0.112	0.90–1.01	0.98	0.441	0.92–1.04
Proportion of monocytes (%)	14 (10.1–16)	17.9 (14–24.8)	0.86	0.051	0.73–1.00	0.89	0.191	0.75–1.06
Proportion of basophils (%)	0.7 (0.5–1.7)	1.35 (1–2.6)	0.65	0.159	0.36–1.18	0.68	0.225	0.37–1.26
Platelet (10 ⁹ /L)	33 (18–73.3)	19.5 (10–45.5)	1.03	0.080	0.99–1.06	1.02	0.251	0.98–1.07
Serum urea (mmol/L)	5.9 (3.7–12)	3.8 (2.7–4.8)	1.09	0.117	0.98–1.22	1.06	0.330	0.94–1.20
Serum creatinine (μmol/L)	103 (100–110)	103 (98.3–105.8)	1.03	0.691	0.88–1.22	1.03	0.716	0.86–1.24
Serum bilirubin (μmol/L)	13 (9–16)	14 (11–20)	1.05	0.377	0.94–1.18	1.02	0.783	0.89–1.17
Serum AST (U/L)	58.5 (25.3–135)	118.5 (67–223.5)	1	0.297	0.99–1.00	1	0.39	0.99–1.00
Serum ALT (U/L)	51.5 (21.3–119.8)	71.5 (47.5–153.3)	0.99	0.304	0.98–1.01	0.99	0.333	0.98–1.01
Serum protein (g/L)	60 (46–69)	62 (56–69)	0.95	0.175	0.87–1.03	0.96	0.339	0.88–1.04

ACOR = adjusted conditional odds ratio; ALT = alanine aminotransferase; AST = aspartate aminotransferase; CI = confidence interval; COR = conditional odds ratio; DENV = dengue virus; HIV = human immunodeficiency virus; IQR = interquartile range.

ACOR adjusted by days post fever onset at first dengue presentation.