

## Supplementary Table S2

Abbreviation: male, M; female, F; y/o, years old

<sup>1</sup>Normal ranges used for hematological parameters were obtained for children aged from 2 to 15 years old from:

<http://www.hematocell.fr/index.php/les-cellules-du-sang/15-les-cellules-du-sang-et-de-la-moelle-osseuse/valeurs-normales-de-l-hemogramme-selon-lage/129-hemogramme-selon-lage>

<sup>2</sup>Normal ranges used for biochemical parameters were obtained from:

<https://emedicine.medscape.com/article/2172316-overview>

\*Variables used in validation step

Variables used from Visit 1	Number of cases (out of 237)	Mean [range]	p-value (bold for $\leq 0.01$ )	Comments
<b>Demographic data and medical history</b>				
Age* (y/o)		8.2 [2-15]	0.04	
Sex*	M: 108; F: 129		0.77	
Day after fever onset*		3.3 [0-9]	<b>1.5e-5</b>	
<b>Symptoms</b>				
Headache*	210		0.82	
Retrorbital pain*	160		0.06	
Muscle pain*	117		0.02	
Joint pain*	54		0.30	
Backache*	12		0.04	
Rash*	35		1.0	
<b>Clinical examination</b>				
Weight* (kg)		20.3 [10-52]	0.02	
Height* (cm)		117.6 [78-167]	0.10	
Temperature* (°C)		37.9 [36.0-40.5]	<b>4.6e-10</b>	
Systolic blood pressure* (mmHg)		97.5 [0-140]	<b>1.3e-3</b>	
Diastolic blood pressure* (mmHg)		62.7 [0-110]	0.97	
<b>Haemorrhagic manifestations</b>				
Petechiae*	43		0.13	
Ecchymosis or purpura*	24		0.81	
Bleeding nose, gums*	9		0.25	
Conjunctival haemorrhage*	47		0.27	
Hematemesis*	6		0.34	
Tourniquet test*	157		0.35	

**Warning signs**

Vomiting*	186	0.03
Abdominal pain*	169	<b>2.9e-4</b>
Diarrhoea*	7	0.68
Hepatomegaly*	98	0.04

**Plasma leakage**

Ascites (ultrasound)	92	< <b>2.2e-16</b>
Ascites (clinical)*	22	0.8
Pleural effusion (ultrasound)	82	< <b>2.2e-16</b>
Pleural effusion (clinical)*	25	0.24
Volume of pleural effusion		0.4 [0-3] <b>2.0e-15</b>
facial oedema*	11	0.04

**Shock signs**

Cold extremities*	34	<b>3.5e-15</b>	
Weak pulse*	21	<b>3.2e-14</b>	Blood pressure untaken.
Narrow pulse pressure*	41	<b>1.6e-13</b>	Defined by systolic minus diastolic blood pressure $\leq$ 20 mmHg.
Cyanosis*	25	1.0	
Delayed capillary refill time* (> 3 secs)	30	0.83	

**Other complications**

Coma or convulsions	4	1.0
Other	7	0.08

**Virological parameters**

Dengue NS1 antigen (positive)	111	0.56
Dengue NS1 antigen (quantitative; $\mu\text{g/mL}$ )		3.6 [0-74.9] 0.98

**Haematological parameters**

White blood cells count (WBC) ( $10^9/\text{L}$ )	6.1 [1.4-32.0]	0.30	Normal range <sup>1</sup> : 4 - 14.5 $10^9/\text{L}$
Red blood cells count (RBC) ( $10^{12}/\text{L}$ )	4.9 [2.3-8.7]	<b>1.1e-6</b>	Normal range <sup>1</sup> : 3.9 - 5.6 $10^{12}/\text{L}$

Hemoglobin (Hb) (g/L)	12.1 [5.8-23.0]	<b>7.7e-8</b>	Normal range <sup>1</sup> : 110 - 166 g/L
Hematocrit* (HCT) (%)	38.0 [17.9-59.6]	<b>9.4e-7</b>	Normal range <sup>1</sup> : [2-6] y/o: 32 - 40% [6-15] y/o: 32 - 49%
Mean cell volume (MCV) (fL)	78.4 [58.4-101.5]	0.4	Normal range <sup>1</sup> : 72 - 102 fL
Mean cell hemoglobin (MCH) (pg)	24.9 [16.3-30.2]	0.79	Normal range <sup>1</sup> : 24 - 35 pg
Mean cell hemoglobin concentration (MCHC) (g/L)	31.8 [27.8-38.5]	0.08	Normal range <sup>1</sup> : 310 - 370 g/L
Platelet count* (PLT) (10 <sup>9</sup> /L)	123.7 [6-440]	<b>&lt; 2.2e-16</b>	Normal range <sup>1</sup> : 160 - 558 10 <sup>9</sup> /L
Red cell distribution width (RDW) (%)	37.8 [13.6-59.4]	0.94	Normal range <sup>1</sup> : 11.5 - 14.5%
<b>Biochemicals parameters</b>			
<i>Liver function</i>			
Aspartate Aminotransferase (AST) (IU/L)	165.9 [15-1349]	<b>2.3e-6</b>	Normal range <sup>2</sup> : 5 - 30 IU/L
Alanine Aminotransferase (ALT) (IU/L)	68.7 [6-531]	<b>2.9e-4</b>	Normal range <sup>2</sup> : 5 - 30 IU/L
Total Bilirubine (µmol/L)	4.6 [1.4-30.4]	0.35	Normal range <sup>2</sup> : 2 - 20 µmol/L
Conjugated Bilirubine (µmol/L)	1.6 [0.0-12.2]	<b>0.01</b>	Normal range <sup>2</sup> : < 6 µmol/L
<i>Inflammation</i>			
C-Reactive Protein (mg/L)	13.1 [0.1-198.7]	<b>3.5e-3</b>	Normal range <sup>2</sup> : < 5 mg/L
<i>Lipid profile</i>			
Total Cholesterol (mmol/L)	3.0 [1.0-5.6]	<b>3.1e-10</b>	Normal range <sup>2</sup> : 3 - 5.5 mmol/L
HDL Cholesterol (mmol/L)	0.6 [0.1-1.7]	<b>&lt; 2.2e-16</b>	Normal range <sup>2</sup> : 1 - 2 mmol/L
LDL Cholesterol (mmol/L)**	1.5 [0.0-3.8]	<b>3.0e-13</b>	Normal range <sup>2</sup> : 2.2 - 3.2 mmol/L
Triglycerides (mmol/L)	1.8 [0.1-6.2]	<b>4.1e-11</b>	Normal range <sup>2</sup> : 0.56 - 1.70 mmol/L