

Supplementary Data :**Supplement S1:** Distribution of G6PD deficiency according to WHO definition of French Guianese participants

G6PD	n	% and mean	Classification
	188	100 / 12,7 [12,26-13,15]	
<i>Male</i>			
<1U/g Hb	0		Deficient
1-8 U/g Hb	10	5,3 / 6,51[5,39-7,62]	Intermediate
≥8 U/g Hb	92	48,9 / 12,94 [12,41-13,46]	Normal
<i>Female</i>			
<3U/g Hb	0		Deficient
3-8 U/g Hb	3	1,6 / 6,36 [4,44-8,29]	Intermediate
≥8 U/g Hb	80	42,6 / 13,44 [12,86-14,01]	Normal

Supplement S2: Results of cluster for selected localities on the crossborder area between French Guiana and Brazil, January 2017-January 2018.

Locality	Cluster	Number of Cases	country	Population	Year of population update	Pop. Information Source	Incidence Rate (case per 100*)	Ethnicity
Benoá	1	31	BR	48	2015	FUNAI	64.6	Karipuna
Amomi	1	13	BR	72	2015	FUNAI	18.1	Palikur
Manga	2	180	BR	817	2015	FUNAI	22.0	Karipuna
Kumenê	2	167	BR	784	2015	FUNAI	21.3	Palikur
Centro de Oiapoque	2	105	BR	1856	2015	SIVEP-M.	5.6	Multi-ethnic
Planalto	2	73	BR	2991	NA	SIVEP-M.	2.4	Multi-ethnic
Clevelândia do Norte	2	13	BR	709	NA	SIVEP-M.	1.8	Multi-ethnic
Trois Palétuviers	3	72	GF	155	2016	CDPS	46.4	Palikur (Galibi, Karipuna)
Paraíso	3	81	BR	1782	2015	SIVEP-M.	4.5	
Kunanã	3	30	BR	74	2015	FUNAI	40.5	Karipuna
Ariramba	3	23	BR	52	2015	FUNAI	44.2	Karipuna
Japiim	3	22	BR	52	2015	FUNAI	42.3	Karipuna
Vila do Taparabó	3	22	BR	65	2015	SIVEP-Malaria	33.8	
Huaha	3	30	BR	102	2015	FUNAI	29.4	Galibi-Marworno
Crikou	3	14	BR	51	2015	SIVEP-M.	27.5	
Açaizal	3	23	BR	112	2015	FUNAI	20.5	Karipuna
Nova Esperança	3	87	BR	2213	2015	SIVEP-M.	3.9	
Universidade	3	49	BR	1651	NA	SIVEP-M.	3.0	
Nova União	3	49	BR	2772	NA	SIVEP-M.	1.8	
Centre de St-Georges	3	22	GF	1385	2016	CDPS	1.6	Multi-ethnic

Galibi	4	29	BR	58	2015	FUNAI	50.0	Galiby-Kalinã, Karipuna, Palikur, Galibi-Marworno.
Village Blondin	4	9	GF	78	2016	CDPS	11.5	Palikur
Vila Vitória	4	54	BR	816	2015	SIVEP-M.	6.6	Multi-ethnic
Infraero	4	86	BR	1452	NA	SIVEP-M.	5.9	
Espírito Santo	4	28	BR	505	2015	FUNAI	5.5	Karipuna
Kumarumã	4	74	BR	1749	2015	FUNAI	4.2	Galibi-Marworno
Maripa	4	16	GF	354	2016	CDPS	4.5	Multi-ethnic
Adimo	4	18	GF	510	2016	CDPS	3.5	Multi-ethnic
Esperance 3 - Savane	4	12	GF	855	2016	CDPS	1.4	Multi-ethnic
Onozo	4	10	GF	698	2016	CDPS	1.4	Multi-ethnic
	Total	1442						

* Incidence rate: new malaria cases notified for the period from 01/01/2017 to 31/01/2018 divided by the total population of year 2015 and multiplied by 100.

FUNAI: Fundação Nacional do Índio, Brazil; SIVEP-Malária: Sistema de Vigilância Epidemiológica da Malária, Brazil; CDPS: Delocalized Centers for Prevention and Care, Cayenne Hospital, French Guiana; BR: Brazil; GF: French Guiana