

Table 1 Areas of Estuaire Gabon divided in 4 groups

Municipalities	Areas
Libreville	Alibandengue, Bel-Air, Camp de Gaulle, Charbonnage, ENS, Haut de Gué-Gué, Ancienne Sobraga, Derrière la prison, Cocotiers, Rio, Nzeng-Ayong, Sibang, PK6, PK7, PK8, PK9, Melen, Léon-Mba, Akébé, Bellevue, Kinguélé, Likouala, Awendjé, Apostrophe, FOPI, Ozangué, Mindoubé, IAI, Kanté
Akanda	Avorbam, Okala, Angondjé
Owendo	Alénakiri, Awoungou, Cité de la SNI
Ntoun	Bikélé, Essassa, Pk18, Soleil

Table 2 Prevalence per 1 000 donations with 95% CIs for first-time volunteer and replacement Gabonese blood donors and place of residence

Variables	Donors, n (%)	HBsAg+	
		Donors, n (%)	Prevalence per 1000 (95% CI)
Donation type			
First-time volunteers	761	23	30.2 (18.1-42.4)
Replacement volunteers	849	65	77 (58.7-94.4)
Localities			
Libreville	1420	65	46 (34.9-56)
Akanda	31	6	194 (54.5-332.6)
Owendo	116	9	78 (28.9-126.3)
Ntoun	43	8	186 (69.7-302.4)
Total	1610	88	55 (43.6–65.8)

Table 3 Results of the included studies.

Population type	Region	Diagnostic markers	Main modes of transmission	Population size	Seropositivity			Reference
					HBV+ (%)	HCV+ (%)	HIV+ (%)	
BD	Estuaire Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Modes of blood donations, Residence in endemic area, male	1610	5.5%	0.06%	1.1%	[12]
BD	Southeast Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Hematological parameters history	614	3.3%	4.9%	1.3%	[16]
BD	Southeast Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Age	5,706	5.9%	6.2%	3.1%	[10]
BD	Estuaire Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Hematological parameters history	4,744	1.7%	0.5%	1.1%	[13]
GP	Estuaire Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Occupation	408	3.9%	2.9%	2.5%	[11]
BD	Estuaire Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Previous diagnoses history	41,001	0.052%	0.115%	0.107	[14]
BD	Estuaire Gabon	HBsAg, HCV/Ab, HIV/Ag-Ab	Blood donation refusal	414	3.1%	1.45%	1.45%	[15]

GP : general population, **BD** : blood donor

Table 4 Quality assessment score (Newcastle-Ottawa scale for case-control and adapted for cross-sectional).

Reference	Study design	Selection	Comparability	Outcome	Total score
[10]	Retrospective	4/4	2/2	3/3	9/9
[11]	Retrospective	4/4	2/2	3/3	9/9
[12]	Cross-sectional	5/5	2/2	3/3	10/10
[13]	Retrospective	4/4	2/2	3/3	9/9
[14]	Retrospective	4/4	1/2	3/3	8/9
[15]	Retrospective	4/4	2/2	3/3	9/9
[16]	Retrospective	4/4	2/2	3/3	9/9