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Estimation of Incubation Period for Oropouche Virus Disease among Travel-Associated Cases, 2024–2025

Appendix

Appendix Table 1. Comparison of characteristics of probable and confirmed cases identified by CDC (n = 74) vs. GeoSentinel and published literature (n = 23) used in an estimation of incubation period for Oropouche virus disease among travel-associated cases, 2024–2025

	CDC probable and	GeoSentinel and published literature	
Patient characteristic	confirmed cases, n = 74	probable and confirmed cases, n = 23	p value
Age group, y			
0–19	3 (4.1)	1 (4.3)	0.026*
20–39	17 (23.0)	15 (65.2)	
40–59	36 (48.6)	5 (21.7)	
<u>></u> 60	18 (24.3)	2 (8.7)	
Missing	0	0	
Age, y			W = 9,409;
Mean	48.7	35.7	p<0.0001†
Median (IQR)	51 (37–59)	30 (25–41.5)	•
Range	11–81	18–71	
Sex			1.0‡
F	41 (55.4)	13 (56.5)	
Μ	33 (44.6)	10 (43.5)	
Missing	0	0	
Hospitalized			0.041±
No	58 (84.1)	14 (60.9)	
Yes	11 (15.9)	9 (39.1)	
Missing	5	0	
Travel duration, d			0.00050*
<7	20 (27.0)	1 (4.3)	
7–13	35 (47.3)	3 (13.0)	
14–20	5 (6.8)	12 (52.2)	
21–27	5 (6.8)	3 (13.0)	
<u>></u> 28	9 (12.2)	4 (17.4)	
Missing	0	0	
Onset during travel			0.48‡
No	34 (45.9)	8 (34.8)	
Yes	40 (54.1)	15 (65.2)	
Missing	0	Û	
Exposure period duration (days)			W = 9,409;
Mean	13.7	13.5	p<0.0001†
Median (IQR)	7 (5–11)	14.0 (9.0–17.5)	
Range	2–135	2–29	

*Fisher exact test p value.

†Wilcoxon rank sum test p value.

 $\ddagger \chi^2 p$ value.

Appendix Table 2. Akaike Information Criterion for log-normal, Gamma, and Weibull distributions for different case sets used in an estimation of incubation period for Oropouche virus disease among travel-associated cases, 2024–2025

		Akaike information criterion		
Case set	No.	Log-normal	Gamma	Weibull
Probable and confirmed cases	97	1,300.59	1,305.92	1,308.42
Confirmed cases*	40	543.88	548.07	549.65
2024–2025 probable and confirmed cases	95	1,268.74	1,274.20	1,276.93

*Traveled < 14 d.

Appendix Table 3. Parameters and quantiles of log-normal distribution for different case sets in an estimation of incubation period for Oropouche virus disease among travel-associated cases, 2024–2025

	Confirmed cases* N = 40		2024–2025 probable and confirmed cases N = 95	
Parameter/Quantile	Estimate	95% CI	Estimate	95% CI
Location parameter, µ	3.1	(2.2–4.2)	3.1	(2.5–3.9)
Dispersion parameter, σ	2.0	(1.5–2.4)	1.9	(1.6–2.3)
5 th quantile	1.0	(0.4–1.6)	1.1	(0.6–1.5)
50 th quantile	3.1	(2.1–4.0)	3.1	(2.4–3.8)
95 th quantile	9.3	(5.4–13.2)	9.2	(6.5–11.9)
99 th quantile	14.8	(6.9–22.7)	14.4	(8.9–19.9)

* Traveled < 14 d.

Appendix Table 4. Parametric log-normal survival regression models for 97 probable and confirmed travel-associated Oropouche virus disease cases, 2024–2025

Model	Variable (Reference Category)	Coefficient	(95% CI)	SE	Р
1	Age	-0.0083	(-0.021 to 0.0047)	0.0066	0.21
2	Sex (Female)				
	Male	0.031	(-0.38 to 0.44)	0.21	0.88
3	Hospitalized (No)				
	Yes	-0.0012	(−0.54 to 0.51)	0.27	0.97