



Article

Seropositivity of Anti-*Toxoplasma gondii* Antibodies in Owners and Their Dogs Living on Island and Mainland Seashore Areas of Southern Brazil

Aaronson Ramathan Freitas ¹, Ruana Renostro Delai ¹, Louise Bach Kmetiuk ², Evelyn Cristine da Silva ³, Rafaella Martini ¹, Ana Pérola Drulla Brandão ⁴, Rogério Giuffrida ⁵, Ivan Roque de Barros-Filho ¹, Rodrigo Costa da Silva ⁵, Hélio Langoni ³, Fabiano Borges Figueiredo ², Cláudia Turra Pimpão ⁶, Andrea Pires Dos Santos ⁷, Vamilton Alvares Santarém ⁵ and Alexander Welker Biondo ^{1,7,*}

¹ Department of Veterinary Medicine, Federal University of Paraná State, Curitiba 80035-050, PR, Brazil

² Laboratory of Cell Biology, Carlos Chagas Institute, Oswaldo Cruz Foundation, Curitiba 81310-020, PR, Brazil

³ Department of Veterinary Hygiene and Public Health, São Paulo State University, Botucatu 18618-681, SP, Brazil

⁴ Department of Preventive Medicine, University of São Paulo São Paulo 05508-270, SP, Brazil

⁵ Laboratory of Veterinary Parasitology, Veterinary Teaching Hospital, University of Western São Paulo, São Paulo 190019-70, SP, Brazil

⁶ Department of Animal Science, School of Life Sciences, Pontifical Catholic University of Paraná, Curitiba 80230-130, PR, Brazil

⁷ Department of Comparative Pathobiology, College of Veterinary Medicine, Purdue University, West Lafayette, IN, 47907, USA

* Correspondence: abiondo@ufpr.br; Tel.: +55-41-3350-5623

Supplementary Materials

Table S1. Univariate analysis for accessing bred, age and hunting behavior as risk factor for anti-*Toxoplasma gondii* antibodies detected by IFAT test in dogs from island and seashore mainland areas of southern Brazil (N = 283).

Variable *	anti- <i>T. gondii</i> antibodies		Univariate Analysis	
			OR (95% CI)	p-value
	Seropositive (%)	Seronegative (%)		
	66/283 (23.3)	217/283 (76.7)		
Bred				0.087
Purebred	13 (20.0)	67 (32.1)	Ref.	
Mixed breed	52 (80.0)	142 (67.9)	1.87 (0.97–3.81)	
Age				0.005
<1 year	1 (2.0)	34 (18.7)	Ref.	
1 to 8 years	39 (79.6)	132 (72.5)	8.79 (1.81–212)	
>8 years	9 (18.4)	16 (8.9)	16.4 (2.68–433)	
Dog hunting behavior				0.155
No	34 (57.6)	132 (68.8)	Ref.	
Yes	25 (42.4)	60 (31.2)	1.62 (0.88–2.95)	

* Missing data values for breed (9/283 = 3.2%), age (52/283 = 18.4%) and dog hunting behavior (32/283 = 11.3%). The variables were analyzed separately due to the number of missing (age and hunting behavior: lost of information higher than 10%) or imprecision of data regarding bred provided by dog's owners.