RESEARCH NOTE

The Epidemiological Importance of *Triatoma*nigromaculata (Stal, 1859) Colonizing Human Dwellings of the Venezuelan Andes

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The search for intradomiciliary vectors of Chagas' disease in Venezuela has been limited to regions below 800 m altitude, where Rhodnius prolixus predominates and is the principal vector (Pifano 1961 Arch Venez Med Trop Parasit Med 4: 140-144). It well may be that other proven domiciliary vectors, such as T. nigromaculata

(Stal, 1859) might be found in human dwellings above 800 m altitude, without the knowledge of the inhabitants.

T. nigromaculata, naturally infected with Trypanosoma cruzi was found in two rural dwellings at 800 m altitude in the Coastal Cordillera of north central Venezuela (Lent & Pifano 1939 Bras Med 33: 685-686), recently, in the locality of Guaraque (8° 30' and 71° 35' W), at an altitude of 1,120 m in the Venezuelan Andes, we found a colony of T. nigromaculata in a recently constructed modern dwelling, with plastered and painted walls and a solid tiled roof. In this house, inhabited by five persons, two dogs and a cat, we captured 59 bugs in bedrooms and in the nest of a setting hen, of which bugs 47 had ingested blood. No bug was infected with T. cruzi.

The blood ingested by the bugs was tested by immunodiffusion technique against rabbit antisera against man, dog, cat and chicken (Guerrero & Scorza 1981 Bol Dir Malar San Amb 21: 129-139). The results are given in the Table.

We emphasize two findings, first, the intradomiciliary colonization of *T. nigromaculata* in the Andean region, and second, the alimentary preference for human or dog blood in 83% of the insects containing blood.

The finding of *T. nigromaculata* in a modern dwelling in the Venezuelan Andes, and the recent increase of tourism in the area, leading to the construction of modern dwellings above 1,000 m altitude, shows the necessity of vigilance for the control of possible new foci of Chagas' disease.

TABLE

Age composition and blood source frequences in intradomiciliary Triatoma nigromaculata

Development stage	Total	Percentages	Blood source				
		in the sample	Man	Dog	Cat	Chicken	Rat
Adult male	3	5	3	0	0	0	0
Adult female	6	10	4	1	0	1	0
Nymph - V	17	29	8	6 (2)	0	0	0
Nymph - IV	14	24	4	5	0	3	0
Nymph - III	12	20	4	2	0	4	0
Nymph - II	7	12	2	0	0 _	0	0
Total	59	100	25	14	0	8	0
Subtotal percentages = 80			5 3	30	0	17	0