
Species Identification of *Rhipicephalus sanguineus*

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I am very grateful to F Dantas-Torres for the enriching comments. With respect to the identification of the ticks, these were provided by the patient, a goatherd who collected them from his own goats, with which he worked daily [1].

The identification of the species involved in the patient's anaphylactic reaction was based on known morphological criteria, bearing in mind the difficulties in identifying ticks belonging to the *Rhipicephalus sanguineus* group, which are almost morphologically indistinguishable, as mentioned by F Dantas-Torres. The collected ticks were obtained from central Spain. The geographic source and the animals affected (goats) helped us with our final species identification.

The ticks used for protein extraction were all adults, but the gender was not identified. To date, no relevance has been given

to role of gender [2-4] in possible allergic reactions by ticks, although it would make for interesting studies in the future.

References

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