**Table S1.** Variables assessed for each dog and all possibilities separated by comma

|  |  |  |
| --- | --- | --- |
| **Category** | **Variable** | **Options** |
| **Signalment** | Case numberPatient and owner nameAgeYear of presentationMonth of presentationSexReproductive statusBreedWeight | In yearsyyyymmFemale, maleCastrated, intactNameKilogram |
| **History and clinical data** | Age of first stingGrade of current stingGrad of previous stingNumber of total stingsInterval between stingsTime of dayGallbladder wall oedemaAlanine Aminotransferase increaseSituationObserved insect stings | In years0, 1, 2, 30, 1, 2, 3NumbermmMorning, midday, afternoon, evening/nightYes, no, did not checkYes, no, did not checkWhile walking, in garden, on balcony, other, Yes, suspected, no |
| **Treatment** | HospitalizationDuration of hospitalizationAntihistamineGlucocorticoidsGastrointestinal protectantsAdrenalineInfusionVenom ImmunotherapyOther treatments | Yes, noHoursYes, no, unknownYes, no, unknownYes, no, unknownYes, no, unknownYes, no, unknownYes, noAnalgesics, antiemetics, NSAIDs, antibiotics, dietary supplements, other |
| **Trigger** | Trigger groupSpecific identification of allergenLocalization of stingProvocationAllergy testingPrevious trigger | Hymenoptera, food, medication, otherBee, wasp, hornet, bumble, unknownPaw, face, generalized, oral cavity other, unknownYes, noYes, noBee, wasp, hornet, bumblebee |
| **Comorbidities** | Atopic dermatitisInfectious bowel diseaseOtherConcurrent medication | Yes, noYes, noNameName |

**Table S2.** Questionnaire for owners with dogs stung by Hymenoptera

|  |  |
| --- | --- |
| **Questions** | **Possible answers** |
| Has your dog been stung again by an Hymenoptera?By which insect was your dog stung?How much time passed between the separate stings?In which context did the sting occur?Where was your dog stung?What symptoms did your dog exhibit after the sting?How did the reaction compare to the previous one?What did you do after re-sting? | Yes, no, maybeBee, wasp, bumblebee, hornet, unknown< 2 months, 2-12 months, 1-3 years, > 3 years, unknownWhile walking, in the garden, on the balcony, other locationPaw, head, oral cavity, otherItching, swelling, redness of the skin, single episode of diarrhea or vomiting, multiple episodes of diarrhea or vomiting, dyspnea, loss of consciousness, collapse, pallor, no symptoms, otherMilder, same, more severe, unknownAdministration of medication, injection of epi-pen, veterinary visit, stinger extraction, other |
| Have your dog’s insect stings affected your quality of life? | Yes, no |
| Have you changed your lifestyle due to your dog’s insect stings? | Yes, no |
| Has your dog developed new allergies since the first sting? | Yes, food, environmental allergens, medication, other, no |
| Does your dog like to play with insects? | Yes, no |
| Do you own an epi-pen for your dog? | Yes, no |
| Have you heard of allergen-specific immunotherapy? | Yes, no |
| Do you think an insect allergy can be cured by allergen-specific immunotherapy | Yes, no, I don’t know |

**Table S3. Bivariate analysis (fisher’s exact test) of factors associated with severe anaphylaxis.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variables** | **Number of dogs** | **Odds ratio** | **CI 95%** | **p- value** |
| Age < 2 yearsWeight < 10 kgMale sexPurebred> 1 episode< 2m intervalPrevious systemic reactionDaytimeSting in oral cavityBee venomCADComorbidity | 100 | 1.69 | 0.87 – 3.33 | 0.12 |
| 91711434312109935557 | 1.581.141.961.261.720.821.313.021.790.27 | 0.82 – 3.060.58 – 2.200.82 – 5.130.49 – 3.160.44 – 6.730.12 – 5.510.65 – 2.681.32 – 7.080.89 – 3.600.01 – 2.27 | 0.170.750.120.660.3710.51<0.01\*0.090.26 |
| 14 | 1.73 | 0.49 – 6.08 | 0.39 |