

Table S1 Information on dogs and their owners used in the analysis

Breed	Dog's sex	Neutered	Dog's age	Owner's sex	Owner's age
English Golden Retriever	Male	Yes	6	Female	50
Yorkshire Terrier	Male	Yes	10	Female	23
English Golden Retriever	Male	No	8	Male	52
Mix	Male	Yes	3	Female	25
Yorkshire Terrier	Male	Yes	7	Female	25
Standard Poodle	Female	Yes	3	Female	61
Boston Terrier	Male	Yes	9	Female	59
Labradoodle	Female	Yes	2	Female	51
Miniature Schnauzer	Male	Yes	10	Female	57
Jack Russell Terrier	Female	Yes	6	Female	33
Shiba	Female	Yes	3	Female	57
Shiba	Male	Yes	7	Male	63
Labrador Retriever	Female	Yes	2	Female	54
Shiba	Female	Yes	2	Female	33
Miniature Pinscher	Male	Yes	3	Female	59
Shiba	Male	Yes	9	Female	30
Golden Retriever	Male	Yes	9	Female	30
Pug	Male	Yes	4	Female	48
German Shepherd Dog	Male	-	7	Male	70
Mix	Male	Yes	8	Female	49
Mix	Female	No	12	Female	18
Chihuahua	Female	Yes	3	Female	55
Old English Sheepdog	Female	Yes	3	Female	51
Miniature Pinscher	Male	Yes	4	Female	28
Jack Russell Terrier	Male	Yes	1	Female	43
Labrador Retriever	Female	Yes	4	Female	49
Shiba	Female	Yes	5	Female	53
Miniature Dachshund	Female	Yes	4	Female	57
Shiba	Female	No	4	Male	58
Beagle	Female	Yes	6	Female	51
Italian Greyhound	Female	Yes	4	Female	43
Mix	Male	Yes	2	Female	50
Mix	Male	Yes	3	Male	57
Mix	Female	Yes	1	Male	53
Miniature Schnauzer	Male	Yes	2	Male	51
Boxer	Female	No	2	Male	61
Golden Retriever	Male	-	12	Female	54
Mix	Female	Yes	6	Female	53
Mix	Female	-	4	Female	49
Miniature Schnauzer	Male	Yes	6	Female	33
Shiba	Male	Yes	9	Female	28
Norfolk Terrier	Male	Yes	4	Female	57
Chihuahua	Female	Yes	6	Male	60
Miniature Pinscher	Female	Yes	8	Female	31
Golden Retriever	Female	Yes	2	Female	51
Havanese	Female	Yes	2	Female	70
Standard Poodle	Male	Yes	8	Female	61
Kaninchen Dachshund	Female	Yes	2	Female	57
Labrador Retriever	Female	No	4	Female	33
Toy Poodle	Male	-	1	Male	51
Toy Poodle	Male	Yes	2	Female	52
German Shepherd Dog	Female	Yes	2	Female	46
Toy Poodle	Male	Yes	4	Female	51
Whippet	Male	Yes	4	Female	43
Miniature Bull Terrier	Female	Yes	7	Female	48