Delusional infestation is a psychiatric disorder that manifests as an unshakeable false belief of being infested with living or inanimate pathogens. The chief complaint of patients is a rigid belief, against all medical evidence, that they are infested. This is usually associated with abnormal sensations that the patients attribute to the alleged infestation. Since the condition was first described in 1894 more than a dozen different names have been applied to the disorder, most commonly delusions of (or delusional) parasitosis and Ekbom syndrome. Approximately 40% of patients present with a primary monodelusional disorder. The remaining presentations occur as a secondary delusional infestation in the context of other illnesses, most commonly neurological or psychiatric problems or as a side-effect of medication (e.g. secondary to cardiovascular accidents, dementia, schizophrenia, substance misuse, diabetes or antibiotic therapy). Both primary and secondary delusional infestation can present as a monodelusional disorder, a shared delusion or a delusion by proxy. In monodelusional disorder only the patient is involved and it is only the patient who describes symptoms. In shared delusions the patient as the primary inducer, as well as someone in his or her immediate vicinity, share the belief that an infestation is present. In delusional infestation by proxy patients claim that someone other than themselves is infested; this may be the patient’s child, spouse or pet.

Delusional infestation by proxy or as a shared delusion involving pets has been poorly described in the literature, and is limited to case reports or brief discussions in newsletters. These case reports usually describe pet owners who present a cat or dog to a veterinary clinician with an unshakeable but false belief that their pet is infested, commonly with a living object or parasite. They may present the veterinary clinician with a specimen sign (formerly known as the ‘matchbox’ sign) — an example of the alleged pathogen which they have collected from the pet. They may or may not exhibit signs of, or profess to, infestation. They may undertake efforts to eradicate the infestation using various ectoparasitocides on their pets that could result in chemically induced pathology. Owing to the paucity of research in this field it is completely unclear as to how common such presentations are in veterinary care. In addition, it is unclear how many cases are delusional by proxy and how many are ‘shared’ delusions where the pet owners believe that both they and their pet are infested. It is difficult to call this a shared delusion because the pet is unable to share the delusional belief of the owner, but is merely the innocent victim in the psychosis. We therefore suggest the new term ‘double delusional infestation’ for patients who believe that they and someone or something else is infested, but the other person or pet does not or cannot share that belief.

Finally, patients with delusional infestation by proxy with alleged infestation of their pet might not present to a psychiatrist for evaluation, and they are unlikely to be seen by a physician who would make such a referral. Instead, they are likely to seek advice from a veterinarian, who is unable to recommend or make a referral to a mental health specialist. Thus, this variant of delusional infestation by proxy is understandably poorly recognised in the field of psychiatry. We therefore attempted to examine the frequency of delusional infestation among pet owners presenting their animals to veterinary clinics.

**Method**

We developed a questionnaire that was emailed to 32,663 veterinary clinicians primarily working in first-opinion practice in the USA and Canada who were members of the Veterinary Information Network (www.vin.com), a subscription-based worldwide online community and information service for veterinarians (the full questionnaire is available as an online supplement to this paper). Data were collected from 23 July 2013 to 21 September 2013. The questionnaire asked all participants whether they had ever seen pet owners believe that their pets are infested (referred to here as ‘clients’) whom they suspected had delusional infestation by proxy. We asked for a demographic profile of the clients as well as the type of pet they presented as.

**Results**

The respondents had seen 724 suspected cases of delusional infestation by proxy in a pet. The clients were mainly White, female and 30–60 years old. They presented mainly dogs and cats, and the alleged infestation was mainly with arthropods or worms. Also, 252 clients claimed to be affected themselves; we termed this ‘double delusional infestation’.

**Conclusions**

Delusional infestation is seen frequently in veterinary practice. Psychiatrists need to be aware that patients may have pets they believe are infested.

**Declaration of interest**

None.
We had a total of 714 responses from the 32,663 email requests for participation with sufficient data for analysis. The return rate for our questionnaire is in keeping with the return rate of other surveys in this professional group performed through the network. The 714 respondents had seen 724 suspected cases of delusional infestation. Table 1 describes the location and type of the participating clinics. Most respondents were first-opinion practice clinicians from the USA or Canada. Table 2 describes the demographic characteristics of the clients: most were White women (n = 566; 78%); of these 72% were aged 30–60 years. Table 3 describes the type of animal presented to the veterinarian with the alleged infestation, and Table 4 describes the alleged infesting pathogen that the client identified on their pet. Most were purported to have ectoparasites. Clients identified ‘lesions’ in 483 cases; however, veterinary clinicians identified lesions on only 94 of the pets; of these, 88 were claimed by the clients to be the result of the infesting pathogen. Table 5 summarises the answers to all additional questions.

Of the 307 cases in which the veterinary clinician tried to take action regarding the client’s probable diagnosis, 209 veterinarians recommended a visit to the client’s physician, 88 spoke to a family member and 145 took other forms of action, including recommendations to fumigate the house, accompanying the client to a physician for a consultation, visiting the client’s home to ensure that there were no parasites in the house, or offering to discuss the situation with the client’s physician. Several clients or their relatives told the veterinary clinician that they were under the care of a mental health professional for delusional infestation or other mental illness (e.g. schizophrenia). From the 252 clients who claimed to be affected, 147 demonstrated alleged cutaneous lesions to the veterinary clinician. In 114 of these cases the clinician confirmed that a lesion was present, but in 33 clients no lesion was evident to the clinician. The clinician identified lesions in 13 clients who claimed to be infested but did not report lesions, and in 7 clients who did not claim to be infested. In 56 cases clinicians did not look for evidence of delusional infestation in the client.

Discussion

This is the first study worldwide looking into delusional infestation in veterinary practice. Its findings suggest that delusional infestation by proxy or double delusional infestation is more common in veterinary practice than previously believed. In the overwhelming majority of these cases the veterinary clinicians were unable to find any evidence of such an infestation despite reasonable attempts to do so. Even if we assume that all those who did not respond to the questionnaire had never seen a case of delusional infestation, and exclude the 25 cases in which an actual infestation of the animal was found, we still have a very conservative estimate of 2.3% of veterinary clinicians approached having seen at least one case. Thus, this condition is common enough to warrant further investigation and provision of guidelines for veterinary clinicians in dealing with such clients. Previously, studies have identified a predominance of elderly women with delusional infestation. In our findings the majority of clients were women, but there was a wide distribution of age and social class with only a mild bias towards people who were more able to afford veterinary services. This could, in part, reflect the typical demographic profile of veterinary clients in the USA or Canada, and a potential decrease in pet ownership among the elderly.

Encouragingly, virtually no responding clinician ignored or dismissed the client’s claims without investigation. Most clinicians

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### Table 1 Location and type of participating veterinary clinics

<table>
<thead>
<tr>
<th>Location of clinic</th>
<th>Number (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA or Canada</td>
<td>664 (93)</td>
</tr>
<tr>
<td>South or Central America</td>
<td>0 (0)</td>
</tr>
<tr>
<td>Europe</td>
<td>17 (2)</td>
</tr>
<tr>
<td>Australia or New Zealand</td>
<td>28 (4)</td>
</tr>
<tr>
<td>Asia or Middle East</td>
<td>4 (1)</td>
</tr>
<tr>
<td>Africa</td>
<td>1 (0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinic type</th>
<th>Number (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-opinion practice</td>
<td>597 (84)</td>
</tr>
<tr>
<td>Emergency practice</td>
<td>40 (6)</td>
</tr>
<tr>
<td>Mobile practice</td>
<td>4 (1)</td>
</tr>
<tr>
<td>Relief veterinary clinic</td>
<td>11 (1)</td>
</tr>
<tr>
<td>Referral practice</td>
<td>39 (5)</td>
</tr>
<tr>
<td>Clinical academia</td>
<td>23 (3)</td>
</tr>
</tbody>
</table>

### Table 2 Client demographic characteristics

<table>
<thead>
<tr>
<th>Gender</th>
<th>n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>117 (16)</td>
</tr>
<tr>
<td>Female</td>
<td>599 (83)</td>
</tr>
<tr>
<td>Do not recall</td>
<td>8 (1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>678 (94)</td>
</tr>
<tr>
<td>Black or African American</td>
<td>5 (1)</td>
</tr>
<tr>
<td>Hispanic or Latino</td>
<td>10 (1)</td>
</tr>
<tr>
<td>Asian</td>
<td>4 (0)</td>
</tr>
<tr>
<td>Native American or Alaskan Native</td>
<td>1 (0)</td>
</tr>
<tr>
<td>Hawaiian</td>
<td>0 (0)</td>
</tr>
<tr>
<td>Mixed race (unspecified)</td>
<td>3 (0)</td>
</tr>
<tr>
<td>Unknown</td>
<td>22 (3)</td>
</tr>
<tr>
<td>Prefer not to answer</td>
<td>1 (0)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age, years (estimated)</th>
<th>n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;20</td>
<td>3 (0)</td>
</tr>
<tr>
<td>20–30</td>
<td>17 (2)</td>
</tr>
<tr>
<td>30–40</td>
<td>90 (12)</td>
</tr>
<tr>
<td>40–50</td>
<td>260 (36)</td>
</tr>
<tr>
<td>50–60</td>
<td>196 (27)</td>
</tr>
<tr>
<td>60–70</td>
<td>82 (11)</td>
</tr>
<tr>
<td>&gt;70</td>
<td>63 (9)</td>
</tr>
<tr>
<td>Not reported</td>
<td>13 (2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Economic background</th>
<th>n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affluent or wealthy</td>
<td>25 (3)</td>
</tr>
<tr>
<td>Upper-middle class</td>
<td>329 (45)</td>
</tr>
<tr>
<td>Lower-middle class</td>
<td>212 (29)</td>
</tr>
<tr>
<td>Working class</td>
<td>135 (19)</td>
</tr>
<tr>
<td>Working poor</td>
<td>15 (2)</td>
</tr>
<tr>
<td>Poor or impoverished</td>
<td>7 (1)</td>
</tr>
<tr>
<td>Not reported</td>
<td>1 (0)</td>
</tr>
</tbody>
</table>
performed various diagnostic tests, as mandated by the pet species, financial limitations of the client and alleged type of pathogen. Similarly encouraging was the observation that half the respondents either attempted to suggest that the client consult a physician, or talked to family members about their concerns for the client. Less encouraging is the fact that the vast majority of veterinary clinicians treated the animal with what they considered to be innocuous treatment, often using the excuse of ‘just in case I missed something’, or because ‘the pet could use a flea control product (or de-wormer, or anti-tick product) anyway’. However, this type of action reinforces the delusional belief of the client. We understand the ethical and medical dilemmas as well as the financial considerations for privately practising veterinary clinicians who do not want to leave a client disappointed, or believe that if they ‘successfully’ treat the pet’s infestation the situation will resolve and the client’s delusion will disappear. However, in accordance with our general advice in delusional infestation,\(^{11}\) it always seems appropriate to avoid any action that might reinforce the client’s delusion, such as futile treatment.

Our study also revealed that approximately a third of clients identified symptoms not only in their animals but also in themselves. Equally worrying is the fact that approximately half of the clients had already treated their animals with pesticides of some description at the time of presentation. It makes it likely that they might have treated themselves as well with equally inappropriate treatments. This points to the possible use of potentially harmful substances on animals and possibly the pet owners themselves, which is in keeping with our previous research into delusional infestation.\(^{1}\) Given that the animal cannot consent to such treatment it brings up ethical issues regarding the responsibility of the veterinarian to avoid any action that might support the client’s delusional belief. It is encouraging that veterinary clinicians appear openly to want to help their clients with these difficulties, and we have produced specific guidelines for veterinarians in line with our general recommendations.\(^{1,12}\)

About half of clients who reported lesions on themselves had these verified by the veterinary clinicians who examined them. We cannot make definite statements on the nature of these lesions for the reasons given above. However, in delusional infestation secondary itching is common, and many lesions exist because of itch-induced scratching, skin-picking and other forms of manipulation of the skin. Importantly, such lesions are evident only in areas that the patient can reach – characteristically, the middle of the back is spared of any lesions, because the client cannot scratch that area. Several clinicians commented that they were aware of this, and asked to examine the client’s back, confirming that the distribution of lesions on the client was consistent with delusional infestation.\(^{1}\) Interestingly, only 25 (3%) of the animals presented had any identifiable organism, which in each individual case might or might not have been responsible for the lesions found on the animal.

Nomenclature

From a wider terminological perspective the involvement of pets in delusional infestation has some interesting psychopathological implications. Depending on whom the client believes to be infested we can formally distinguish the constellations listed below.

<table>
<thead>
<tr>
<th>Table 3</th>
<th>Type of animal presented</th>
</tr>
</thead>
<tbody>
<tr>
<td>n (%)</td>
<td></td>
</tr>
<tr>
<td>Dog</td>
<td>472 (65)</td>
</tr>
<tr>
<td>Cat</td>
<td>199 (27)</td>
</tr>
<tr>
<td>Bird</td>
<td>27 (4)</td>
</tr>
<tr>
<td>Small mammal</td>
<td>6 (1)</td>
</tr>
<tr>
<td>Fish</td>
<td>0 (0)</td>
</tr>
<tr>
<td>Reptile or amphibian</td>
<td>0 (0)</td>
</tr>
<tr>
<td>Small ruminant</td>
<td>2 (0)</td>
</tr>
<tr>
<td>Large ruminant</td>
<td>0 (0)</td>
</tr>
<tr>
<td>Horse</td>
<td>1 (0)</td>
</tr>
<tr>
<td>Other</td>
<td>11 (2)</td>
</tr>
<tr>
<td>Not reported</td>
<td>5 (1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 4</th>
<th>Pathogens alleged by clients to be infesting their pet</th>
</tr>
</thead>
<tbody>
<tr>
<td>n (%)</td>
<td></td>
</tr>
<tr>
<td>Arthropod (fleas, ticks, mites, etc.)</td>
<td>481 (66)</td>
</tr>
<tr>
<td>Bacterium</td>
<td>3 (0)</td>
</tr>
<tr>
<td>Worm</td>
<td>156 (22)</td>
</tr>
<tr>
<td>Not specified</td>
<td>21 (3)</td>
</tr>
<tr>
<td>Other</td>
<td>56 (8)</td>
</tr>
<tr>
<td>Not reported</td>
<td>7 (1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 5</th>
<th>Additional results and findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, n</td>
<td>No, n</td>
</tr>
<tr>
<td>Lesions identified by client on pet</td>
<td>483</td>
</tr>
<tr>
<td>Lesions identified by veterinarian</td>
<td>94</td>
</tr>
<tr>
<td>Pet treated for infestation by client</td>
<td>365</td>
</tr>
<tr>
<td>Specimen sign</td>
<td>441</td>
</tr>
<tr>
<td>Organism identified on pet</td>
<td>25</td>
</tr>
<tr>
<td>Euthanasia demanded</td>
<td>20</td>
</tr>
<tr>
<td>Pet treated by veterinarian</td>
<td>322</td>
</tr>
<tr>
<td>Negative findings explained to client</td>
<td>658</td>
</tr>
<tr>
<td>Additional action taken to resolve apparent infestation</td>
<td>335</td>
</tr>
<tr>
<td>Resolution of problem achieved</td>
<td>190</td>
</tr>
<tr>
<td>Action taken to assist client with probable delusional infestation</td>
<td>307</td>
</tr>
<tr>
<td>Client claimed to be affected as well</td>
<td>252</td>
</tr>
<tr>
<td>Client presented cutaneous lesions to veterinarian</td>
<td>156</td>
</tr>
<tr>
<td>Lesions verified or identified by veterinarian</td>
<td>135</td>
</tr>
</tbody>
</table>

\(^{a}\) Missing data in some questionnaires explain why not all rows add up to 724.
(a) If the client believes that only the pet is infested (not the client himself or herself and no close relative), we have a situation similar to Münchhausen syndrome by proxy (factitious disorder by proxy), in our case delusional infestation by proxy in a pet, where an animal rather than a child is presented to the physician as a surrogate.

(b) If the pet and the client’s child or children are believed to be infested, we have delusional infestation by proxy in child and pet.

(c) If the pet owner believes that not only the pet but also he or she is infested, we have a constellation similar to a shared psychotic disorder, a concept peculiarly dropped in DSM-5. In shared delusional infestation, one person (the inducer) usually makes other close relatives believe themselves to be infested as well. The fact that animals cannot, by definition, share a delusion with their owner poses an interesting terminological dilemma. The constellation cannot be properly termed a shared or induced delusional disorder (*folie à deux*) because it is impossible to induce a shared belief in an animal. We therefore suggest the term ‘double delusional infestation’ for cases where the inducer has the delusional belief of being infested and at the same time believes that his or her animal is infested, too. The same term should be used when small children are involved who cannot, because of their young age, share a delusional belief.

**Study implications**

It appears that delusional infestation is a significant problem in veterinary practice that merits further study. Veterinarians should avoid any action that might reaffirm clients’ delusional beliefs. A small minority of clients request the euthanasia of healthy animals which ought to be resisted. Psychiatrists and other physicians need to be alerted to the possibility that patients may present with delusional infestation by proxy in a pet and ought to ask patients in whom they suspect delusional infestation whether they have pets and believe that they are infested.

**Acknowledgements**

We thank Edie Lau and Nancy Hinkle for their contribution to our discussions at the beginning of the study.

**References**

Online supplement

Questionnaire sent to veterinary clinicians

Question: Have you ever diagnosed what you believe to be a case of delusional infestation by proxy?
Select one answer
a. No
b. Yes

Question: What best describes your practice?
Select one answer
a. Clinical academia
b. Emergency medicine practice
c. First-opinion practice (any species)
d. Mobile practice
e. Referral practice (any type)
f. Relief veterinarian
g. Other (specify)

Question: Where is your practice located?
Select one answer
a. Africa
   a. In which African country is your practice located?
b. Asia or Middle East
   a. In which Asian country is your practice located?
c. Australia or New Zealand
   a. In which Australian State or on which New Zealand Island is your practice located?
d. Europe (including UK)
   a. In which European country is your practice located?
e. South or Central America
   a. In which South or Central American country is your practice located?
f. USA or Canada
   a. In which US State or Canadian Province is your practice located?

Question: How would you describe the socioeconomic status of the majority of your client base?
Select one answer
a. Affluent or wealthy
b. Lower-middle class
c. Poor or impoverished
d. Upper-middle class
e. Working class
f. Working poor

Question: What veterinary species do you deal with in your practice?
Select all that apply
a. Birds
b. Cats
c. Dogs
d. Fish
e. Horses
f. Large ruminants
g. Reptiles and amphibians
h. Small mammals
i. Small ruminants
j. Other (specify)

Question: Client gender
Select one answer
a. Male
b. Female
c. Do not recall

Question: Client ethnicity
Select one answer
a. Asian
b. Black or African American
c. Hawaiian
d. Hispanic or Latino
e. Mixed race, unspecified
f. Native American or Alaskan Native
g. White
h. Unknown
i. Other (specify)
j. Prefer not to answer

Question: Approximate age of client

Question: Client ethnicity
Select one answer
a. Asian
b. Black or African American
c. Hawaiian
d. Hispanic or Latino
e. Mixed race, unspecified
f. Native American or Alaskan Native
g. White
h. Unknown
i. Other (specify)
j. Prefer not to answer

Question: In what year approximately did the client present for evaluation of the apparent infestation?

Question: What type of pet in which the client perceived the infestation?
Select one answer
a. Bird
b. Cat
c. Dog
d. Fish
e. Horse
f. Large ruminant
g. Reptile or amphibian
h. Small mammal
i. Small ruminant
j. Other (specify)

Question: What was the breed?

Question: What type of organism was perceived by the client?
Select one answer
a. Bacterium
b. Insect or arthropod (fleas, ticks, mites, etc.)
c. Worm
d. Not specified
e. Other (specify)

Question: Did the client identify any lesions (perceived or real) on the patient?
Select one answer
a. No
b. Yes

Question: Did you identify any lesions on the patient?
Select one answer
a. No
b. Yes

Question: Did the owner claim these lesions were the result of the infestation?
Select one answer
a. No
b. Yes
   a. What type of lesion(s) did you identify?
Question: Was any treatment being administered by the client at the time of presentation for the perceived infestation?

Select one answer
a. No
b. Yes
   a. What treatment was being administered by the client? (List all treatments)
      i. Were there any clinical consequences to the patient from any treatment being administered by the client?
         Select one answer
         1. No
         2. Yes
            a. What were the clinical consequences of the client-administered treatment? Type in answer
            3. I don’t recall

Question: Did the client present any samples or specimens of the perceived parasite or infesting organism?

Select one answer
a. No
b. Yes
   i. What type of specimen or sample did the client present? Type in answer
   c. I don’t recall

Question: What diagnostic tests did you perform to attempt to identify an infestation?

Select all that apply
a. Examined a sample presented by the client (gross or microscopic)
b. Performed a Wood’s lamp examination
c. Performed a bacterial skin culture
d. Performed a dermatophyte culture
e. Performed a fecal examination
f. Performed a physical examination
g. Performed a skin biopsy
h. Performed a skin scraping and microscopic evaluation
   i. Performed another type of biopsy
j. Performed an adhesive tape examination
k. Performed a flea comb examination
l. Other (specify)

Question: Did you identify any infesting organisms as a result of any of the tests?

Select one answer
a. No
b. Yes

Question: Did the owner demand that the pet be euthanised because of the apparent infestation?

Select one answer
a. No
b. Yes
   a. Did you comply with the client’s demand for euthanasia?
      i. No
      ii. Yes (go to end of survey)

Question: Did you treat the patient’s apparent primary condition (the infestation)?

Select one answer
a. No
b. Yes
   a. How did you treat the patient’s apparent primary condition (infestation)? Select all that apply
      a. Administered non-medical therapy
      b. Anti-parasitic wash or shampoo
c. Applied or administered ectoparasiticide (topical or oral)
d. Prescribed antibiotic therapy
e. Prescribed antifungal therapy
f. Prescribed dietary modification
g. Other (specify)
   Please provide any details you might consider relevant

Question: Did you treat the patient’s apparently iatrogenically produced lesions?

Select one answer
a. No
b. Yes
   a. How did you treat the patient’s apparent iatrogenic lesions? Select all that apply
      i. Administered non-medical therapy
      ii. Anti-parasitic wash or shampoo
      iii. Applied or administered ectoparasiticide (topical or oral)
      iv. Prescribed antibiotic therapy
      v. Prescribed antifungal therapy
      vi. Prescribed dietary modification
      vii. Other (specify)
   Please provide any details you might consider relevant
   c. The patient had no apparent iatrogenic lesions

Question: Did you explain to the client that you could detect no infestation of any form?

Select one answer
a. No
b. Yes
   a. How did you treat the patient’s apparent iatrogenic lesions? Select all that apply
      i. Administered non-medical therapy
      ii. Anti-parasitic wash or shampoo
      iii. Applied or administered ectoparasiticide (topical or oral)
      iv. Prescribed antibiotic therapy
      v. Prescribed antifungal therapy
      vi. Prescribed dietary modification
      vii. Other (specify)
   Please provide any details you might consider relevant
   c. I don’t recall

Question: Did you take any additional actions to resolve the patient’s apparent condition?

Select one answer
a. No
b. Yes
   a. How did the case resolve?
   c. I don’t know

Question: Did you take any actions to assist the client with the suspected or identified delusional infestation by proxy?

Select one answer
a. No
b. Yes
   a. What actions did you take? Select all that apply
      i. Recommended or advised that they consult a medical health professional
      ii. Talked to family member about the suspected problem with advice to consult a medical health professional
      iii. Other
   Please provide any additional details you might consider relevant. (Enter text)
   c. I don’t recall
**Question:** Did the client presenting the pet for perceived infestation claim to be similarly infested (either by transfer from the pet, or by simultaneous infestation)?

- **a. No,** the client did not claim that they were also affected
- **b. Yes,** the client claimed that they were also affected
  - **a.** Did the client demonstrate any cutaneous lesions on their own body to support their claim of parasitosis?
    - i. **No**
    - ii. **Yes**

**Question:** Did you observe any cutaneous lesions on the client’s face, hands or arms that could be consistent with self-trauma or self-mutilation?

- **a.** I did not look for lesions on the client
- **b.** No, I did not observe any lesions on the client
- **c.** Yes, I observed such lesions

**Question:** Have you ever been asked to euthanise a pet that the client considered infested, but in which you could find no infestation?

Select one answer

- **a. No**
- **b.** Yes, once
- **c.** Yes, more than once

**Question:** Have you consulted any resources to determine the best approach (or various alternatives) for dealing with delusional infestation by proxy?

Select one answer

- **a.** No
- **b.** Yes

If yes, please detail what resources you consulted (enter text)

**Question:** Please share any additional comments about the case
Frequency of delusional infestation by proxy and double delusional infestation in veterinary practice: observational study

Peter Lepping, Mark Rishniw and Roland W. Freudenmann

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