ARE SPHYNX CATS HYPOALLERGENIC?
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INTRODUCTION

Cat allergy is one of the most common allergies for people around the world. The severity of symptoms is highly variable and is an important risk factor for both rhinitis and asthma.

In most cases, it is a protein, Fel d 1, secreted by:
- Sebaceous glands
- Salivary glands
- Perianal glands

It has been shown that males produce more protein than females, and that it is related to hormonal status (testosterone).

Considering the high incidence of cat allergy in humans, there is much interest in developing prevention strategies for this disease:
- Immunotherapy
- Creation of hypoallergenic cats
- Administration of antibodies in food

Up to now no strategy has been very effective

Although sphynxs have been at times promoted as appropriate cats for people with allergies, in reality they are not recommendable.

METHODS

A specific ELISA test was performed to detect the concentration of the Fel d 1 antigen in the different samples.

The samples were coded as follows:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Coding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short hair cat</td>
<td>Sphynx cat</td>
</tr>
<tr>
<td>P1</td>
<td>Neutered male</td>
</tr>
<tr>
<td>P2</td>
<td>Neutered male</td>
</tr>
<tr>
<td>P3</td>
<td>Neutered female</td>
</tr>
<tr>
<td>P4</td>
<td>Neutered female</td>
</tr>
<tr>
<td>P5</td>
<td>Neutered female</td>
</tr>
</tbody>
</table>

RESULTS

Figure 1. Microtiter plate with stop solution.

Figure 2. ELISA standard curve.

Figure 3. Concentration (Fel antigen of 1) detected in each sample at a 1:2 dilution ratio.

Sphynx cats are not hypoallergenic
They secrete Fel d 1 antigen on the skin like short-haired cats
Can cause allergies

CONCLUSIONS

OBJECTIVE

To determine if there is sufficient scientific evidence to conclude if sphynx cats are hypoallergenic.

HYPOTHESIS

MATERIALS

Experimental part: Specific ELISA test
Carried out in the laboratories of the UAB Pathological Anatomy Unit.

Animals. Nine cats to collect samples from the cutaneous surface of the skin.
Fel d 1 ELISA kit (6F9/3E4)
Laboratory material

REFERENCES

