

RESULTS

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A total of 30 patients of different ages of both sexes as well as 14 cross-matched normal individuals were studied.

On the other hand samples of house dust were collected from the patients houses showed 3 types of mites 20/25. None of the houses of the normal controls showed any type of mite in their house dust samples.

Details are shown in the following tables.

Table 1: Data of the atopic dermatitis patients

No.	Age	Sex	Occupation
1	3 years	female	-----
2	16 years	female	housewife
3	45 years	female	grandmother
4	2 years	male	----
5	13 years	male	student
6	10 years	female	student
7	45 years	female	grandmother
8	9 years	female	student
9	8 years	male	student
10	2.5 years	female	-----
11	7 years	female	student
12	1.5 years	male	----
13	1 year	female	----
14	2.5 years	male	----
15	40 years	female	teacher
16	20 years	male	farmer
17	13 years	female	student
18	6 years	male	student
19	6 years	male	student
20	40 years	male	farmer
21	5 years	male	---
22	16 years	male	farmer
23	3 years	female	----
24	4 years	female	----
25	7 years	male	----
26	6 years	female	student
27	40 years	female	----
28	10 years	male	farmer
29	20 years	male	student
30	25 years	female	worker
			farmer

All the preschool aged children live with their families

Table 2: The age group of the different patients (male and female)

Age group	Total	male	female	%
1- 10 years	18	9	9	60
11- 20 years	6	3	3	20
21- 30 years	1	-	1	3.3
31- 40 years	3	1	2	10
41- 50 years	2	-	2	6.8
	30	13	17	100

Table 2 shows that 60% were children less than ten years. The sex ratio among them was 1:1.

Table 3: Data of the normal controls

Number	Age in years	Sex	Occupation
31	13	male	student
32	9	female	student
33	13	male	student
34	2.5	female	---
35	7	female	student
36	6	male	student
37	40	male	farmer
38	7	male	student
39	6	female	student
40	40	female	grandmother
41	10	male	student
42	3	male	----
43	7	female	student
44	45	male	farmer

Table 4: Age group of the normal individual regards male and female

Age group	Total	male	female	%
1- 10 years	9	4	5	64.3
11- 20 years	2	2	-	14.3
21- 30 years	-	-	-	---
31- 40 years	2	1	1	14.3
41- 50 years	1	1	-	7.1
Total	14	8	6	100

Table 4 shows that 64.3% of the normal control were less than ten years. The sex ratio among them was male : female = 0.8 :1

Table 5: The results of the prick test for ten atopic patients and four controls.

Test	patients	control
House dust mite	9 positive	4 negative
House dust	4 positive	4 negative

Nine out of ten atopic dermatitis patients gave positive reaction (4 to house dust and 9 to the house dust mite) and one was negative. So the positivity percentage was 90% among patients with atopic dermatitis and zero % among normal control.

Table 6: The immunoglobulins of the patients.

No.	IgE	IgM	IgA	IgG
1	2260	498	220	709
2	2810	290	319	755
3	2260	498	220	231
4	2260	290	220	231
5	2340	192	252	709
6	2260	290	319	120
7	3500	192	380	120
8	2810	290	220	755
9	2260	498	220	231
10	3150	160	252	777
11	3150	192	252	231
12	2260	498	220	120
13	2260	498	220	750
14	3150	160	380	170
15	2340	192	252	522
16	2260	192	252	522
17	3500	192	380	522
18	2260	498	220	650
19	3150	160	252	11
20	3500	192	380	120
21	2260	192	220	120
22	2340	160	380	522
23	2260	192	220	170
24	3150	498	252	120
25	3500	160	220	650
26	2260	192	380	170
27	2260	290	252	522
28	3150	498	220	11
29	3150	290	220	170
30	2340	290	319	777
Mean	2680.333	291.133	270.433	382.933
SE	89.864	24.603	11.492	49.59
T with control	7.577***	2.463*	0.825	3.401**

- P> 0.05 insignificant

* P< 0.05 significant

** P< 0.01 highly significant

*** P<0.001 very highly significant

Table 7:
Immunoglobulins of control group

No.	IgE	IgM	IgA	IgG
31	1760	192	220	105
32	1900	160	252	105
33	1310	160	220	175
34	1310	290	296	105
35	1760	252	252	120
36	1310	226	319	120
37	1760	192	252	170
38	1760	192	220	11
39	1900	226	220	120
40	1310	160	252	175
41	1310	217	343	150
42	1310	192	220	170
43	1760	160	252	170
44	1900	160	252	105
Mean	1597.142	198.5	255	128.642
SE	70.43	10.658	10.405	11.996

Table 8: The animals and mites recorded in houses of the atopic dermatitis patients.

No.	Animals	Mites in house-dust	Types of mite
1	rodents	+ve	<u>O.bacoti</u>
2	rodents	+ve	<u>O.bacoti</u>
3	Farm animal	negative	--
4	rodents	+ve	<u>O.bacoti</u> + <u>D. sp.</u>
5	rodents	+ve	<u>O.bacoti</u> + <u>D. sp.</u>
6	rodents	+ve	<u>O.bacoti</u>
7	Farm a. + dog	negative	---
8	rodents + cat	+ve	<u>O.bacoti</u>
9	rodents	+ve	<u>D. sp.</u>
10	rodents + dog	+ve	<u>O.bacoti</u> + <u>D. sp.</u>
11	rodents	+ve	<u>O.bacoti</u>
12	rodents	not done	----
13	-ve	+ve	<u>O.bacoti</u>
14	rodents	not done	----
15	-ve	negative	----
16	rodents+chicken	+ve	<u>H.pontiger</u>
17	-ve	not done	
18	rodents+F.a+dog	+ve	<u>O.bacoti</u> + <u>D.sp.</u>
19	rodents+F.a+dog+chicken	+ve	<u>O.bacoti</u> + <u>H.pontiger</u>
20	rodents+farm a.	+ve	<u>D. sp.</u>
21	rodents+F.a+dog	+ve	<u>D. sp.</u>
22	rodents+ dog	+ve	<u>O.bacoti</u> + <u>D.sp.</u>
23	-ve	not done	----
24	Farm a + dog	not done	----
25	farm a. + dog	+ve	<u>D.sp.</u>
26	rodents	+ve	<u>O.bacoti</u>
27	dogs	+ve	<u>D.sp.</u>
28	-ve	+ve	<u>D.sp.</u>
29	dogs+ Farm a.	negative	--
30	-ve	negative	---

The most common animals were rodents as well as farm animals

Five patients refused to examine their houses.

Twenty out of twenty five showed mites in their house dust.

F.a = farm animal

O. bacoti = Ornithonyssus bacoti

D. species= Dermatophagoides pteronyssinus

H. pontiger = Haemogamasus pontiger

Table 9:

The distribution of the 3 recovered house dust mites in relation to animals in houses of atopic dermatitis patients.

Mites	Rodents	Farm animals	Dogs & cats	chicken
<u>Ornithonyssus bacoti</u>	12	2	4	1
<u>Dermatophagoides pteronyssinus</u>	8	4	7	--
<u>Haemogamasus pontiger</u>	2	1	1	2

Ornithonyssus bacoti mainly in houses including rodents 12/18 farm animals 2/9, Dog and cats 4/11 and chicken 1/2.

Haemogamasus pontiger mainly in houses including chicken 2/2 , farm animals 1/9, dogs and cats 1/11 and rodents 2/18.

Table 10: The distribution of the different animals
in the houses of the patients.

Animals	No. of houses
Rodents	10
Rodents+ Farm animal	1
Rodents+ dogs or cats	3
Rodents+ F.a.+dogs&cats	2
Rodents+F.a+Dog or cat + chicken	1
Rodents+chicken	1
Dog	1
Dog + Farm animal	4
Farm animal	1

No. of houses infested with rodents 18
 No. of houses having dogs and cats 11
 No. of houses having farm animals 9
 No. of houses having chickens 2