

(2003/2/15 2002/10/2 )

	(%43.4)	(%70.4)
		(%80.2)
	(%61.4)	
(%15.2)	(%10.3)	
	(%3.6)	(%6)
	(%13.6)	(%15.7)

## **Correlation Between Sinusitis and Allergy**

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### **ABSTRACT**

Nasal allergy and sinusitis are common disease which cause main health problem to many people in the world especially on our country after the embargo. The increase of

pollutants in the last period due to severe condition and the complicated life which lead to spread and increase of allergy and sinusitis. Therefore, this study was conducted planed incited to determine the relationship between allergy and sinusitis and shed light on some important data which cause nasal allergy and sinusitis.

The results showed that sinusitis was dominated in house wives (70.4%) and in students males (43.4%). High incidence of headache was in females (80.2%) and in males (61.4%). Also the percentage of Allergy in patients without asthma were in males (15.2%) and in females (10.3%), whereas in patients with allergy and asthma were (3.6%) in male and (6.0%) in females. The percentage of nasal polyps which considered to be one of the complication of sinusitis due to allergy was in females (13.6%) and the males (15.7%).

(%25) (Acute sinusitis AS) (%43)  
(Lund et al., 1997; Herrera and Deshazo, 1990)

.(Wald, 1998a; Gonzalez, 1996; Hildmann, 1991)

(50.000-10.000) (Allergens)

Karlsson .(Weirand Golding-Wood, 1997; 1998 )  
(1994) Holmberge )  
.( )

IgG<sub>4</sub>, IgG<sub>3</sub>, (IgG) (IgM IgE IgG) IgS  
.(Slavin, 1998; Wald, 1995; Lundand Scadding, 1991) IgG<sub>2</sub>, IgG<sub>1</sub>

Oedema and )  
IgA (Swelling  
.(1998 ; Ott et al., 1991)

:

.(Weir and Gplding-Wood, 1997)

.(1998 ; Maran and Lund, 1990)

:

(Atopic Factors)

.(1998 Salvin, 1998 ; Abdulla, 1983)

Naclerio and Solomon, 1998; Friedman et al.,) ( )

.(1991

:

.(1998 Weir and Golding-Wood,1997)

IgA

(IgA)

(%0.14)

(IgG<sub>2</sub>)

.(Wald, 1995)

:

.(Ott et al., 1991)

**:Subjects**

(164)

(70-1)

.(1)

(1)

	( )		

**:Skin Test**

Fresnes Cedex (France) 1996

(Prick Method)

:

Pollens

Grass

Bermuda

Tree1

Tree2 (mixed Tree)

Tree3

Moulds :

MI (Penicillum, Aspergillus, Alternaria, Cladosporium) .

MII (Mucor, Rhizopus, Botrytis, Stemphylium).

MIII (Neurospora, Chaetomium, Pullularia, Fusarium) .

MIV (Helminthosporium, Trichothecium, Epiconnum,Merulius) .

Other Inhalants

H. D. M. (House Dust Mite)

H. D. (House Dust)

Wool

(Volar Surface of the Arm)

(%70)

(30-5)

(26- gauge X 0.5 inch)

.(1)

:1

Appearances	Reaction
No Wheal or Erythema	Negative
20	1+
20	2+
	3+

**: Statistical Analysis**

Chi-Square test

:

(2)

(%49.4) (%50.6)

(2)

(%42) (%58)

(%43.4)

(%70.4)

(%60.5) (%71.1)

15 (18)	32 (38.6)	36 (43.4)	16 (19.3)	59 (71.1)	8 (9.6)	41 (49.4)	42 (50.6)	No.83 (%)50.6	
57 (70.4)	5 (6.2)	19 (23.4)	18 (22.2)	49 (60.5)	14 (17.3)	34 (42)	47 (58)	No. 81 (%)49.4	

:

(3)

(%55.6) (%47)

(%44.4) (%53)

(%80.2)

(%61.4)

:

(4)

( )

(%10.3) (%15.2)

(%21.1) (%10.9)

(%2.4) (%9.7)

(%7.9) (%5.4)

(%6) (%3.6)

(%5.4) (%1.2)

:3

32 (38.6)	51 (61.4)	44 (53)	17 (20.5)	22 (26.5)	39 (47)	2 (2.4)	7 (8.4)	15 (18.1)	15 (18.1)	No.83 (%)50.6	
16 (19.8)	65 (80.2)	36 (44.4)	24 (29.6)	21 (26)	45 (55.6)	2 (2.5)	12 14.8) (	16 (19.8)	15 (18.5)	No. 81 (%)49.4	

:4

1(0.6)	2(1.2)	0(0)	2(1.2)	0(0)	6(3.6)		No,(%)
0(0)	9(5.4)	0(0)	1(0.6)	0(0)	10(6)		
18(10.9)	9(5.4)	2(1.2)	16(9.7)	2(1.2)	25(15.2)		No(%)
20(12.1)	13(7.9)	6(3.6)	4(2.4)	1(0.6)	17(10.3)		

:

(5)

(8-1 >)

(5)

(5) .(%31.32) (%35.81)  
 (%97.5) (%85.54)  
 (%10.84) (25-1)

:5

	52-26	25-1	16<-9	8-1≥		
71 (85.54)	3 (3.62)	9 (10.84)	7 (8.44)	26 (31.32)	50 (60.24)	No.83 (%)50.6
79 (97.5)	0 (0)	2 (2.5)	9 (11.1)	29 (35.81)	43 (53.1)	No. 81 (%)49.4

:

(6)

(%29.6) (%44.6)  
 (%13.6) (%15.7)

:6

70 (84.3)	13 (15.7)	46 (55.4)	37 (44.6)	No.83 (%)50.6
70 (86.4)	11 (13.6)	57 (70.4)	24 (29.6)	No. 81 (%)49.4



:7

83	15 (36.43)	32 (18.72)	36 (27.83)	
81	57 (35.56)	5 (18.72)	19 (27.16)	
164	72	37	55	

:8

83	32 (24.29)	51 (58.7)		
81	16 (23.70)	65 (57.29)		
164	48	116		

:9

7	1 (0.4)	6 (6.5)	
10	0 (0.5)	10 (9.4)	
17	1	16	

:10

43	18 (20.4)	25 (22.5)	
37	20 (17.5)	17 (19.4)	
80	38	42	

:11

83	71 (75.9)	12 (7)	
81	79 (74)	2 (6.9)	
164	150	14	

:12

83	70 (70.85)	13 (12.14)	
81	70 (69.14)	11 (11.85)	
164	140	24	

(3)

(Bronchodilators)

.(Wald, 1995)

Palchunand and )

.(Voznesensky,1988

(4)

(%10.3)

(%15.2)

(%6) (%3.6)

(Mediators)

(Itch)

(Exocrine glands)

Houck and )

Rhodes, 1999; Erkan et al., 1994; Ott et al., 1991; Zimmerman and Gold, 1991; Mygind,  
(1979

..

.(Wald, 1995)

(5)

(%53.1) (%60.24)

(8-1  $\geq$ )

(%35.81) (%31.32)

(16<-9)

(5) .(Groves and Gray, 1985)

.(Murray, 1988; Groves and Gray, 1985)

(6) .(Wald, 1995)

(6)

(%44.6)

(%29.6)

Osteo Meatal Complex (OMC)

4

.1998

.24-22

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