Results and statistics

Table (1): Number of patients included in group A and group B.

	No.	%
A	25	46.3%
В	29	53.7%
Total	54	100%

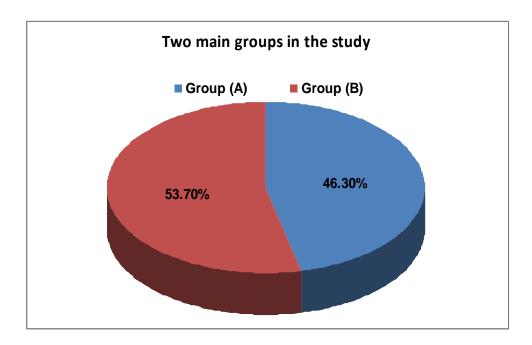


Chart (1): Shows two main groups in the study.

Group A, consisted of 25 patients suffering from isolated maxillary chronic sinusitis of total 54 patients included in the study (46.3%) as diagnosed with Coronal CT scan, while **Group B** consisted of 29 patients with negative CT findings as regard maxillary chronic sinusitis (53.7%) of total patients included in the study.



Figure (27): Coronal CT scan show bilateral CMS with polypoidal thickening of sinus mucosa of (case no. 33 male of 28 years old).

Table (2): Shows sex	distribution	among group	A and group B.

		Sex			$-\mathbf{z}$	P-
		Male	Female	Total	L	value
A	N	11	14	25		
A	%	44%	56%	100%		
В	N	15	14	29	0.1	>0.05
	%	51.72%	48.28%	100%	001	7 0.00
Total	N	26	28	54		
Total	%	48.15%	51.58%	100%		

Group A consisted of 25 patients, 11 males and 14 females (44% - 56% respectively) aged 13-47 years (an average 26.92 years) while **group B** consisted of 29 patients, 15 males and 14 females (51.72% - 48.28% respectively) aged 15-41 years (an average 25.93 years).

Table 2 shows that there was no statistically significant difference between male and female distribution in the group A in comparison with the group B.

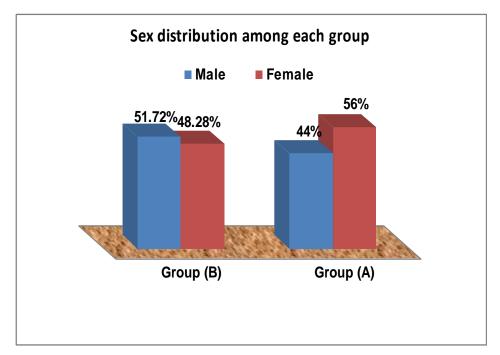


Chart (2): Shows sex distribution among group A and group B.

Table (3): Shows comparison between group A and group B as regard to age.

	Age				
	A	В	Total		
Range (years)	13- 47	15- 41	13- 47		
Mean (years)	26.92	25.93	26.39		
<u>+</u> SD	9.1	7.4			
t. test	0.				
p. value	>0.	.05			

Table 3 shows that there was no statistically significant difference between group A and group B as regard to age of presentation.

Table (4): Shows comparison between group A and group B as regard to distribution of the main complaints.

	A			В		otal
	No.	%	No.	%	No.	%
Nasal obstruction	8	32%	12	41.38%	20	37.04%
Headache	12	48%	10	34.48%	22	40.74%
Nasal discharge	5	20%	5	17.24%	10	18.52%
Hyposmia	0	0%	2	6.9%	2	3.7%
Total	25	100%	29	100%	54	100%
\mathbf{X}^2	2.7					
P-value		>0.05				

In studying the main complaints of group A patients we noticed that the most common complaint was "headache" (48%), then "nasal obstruction" (32%) and "nasal discharge" was found as the main complaint in (20%), compared with the group B where we found that the most common complaint was "nasal obstruction" (41.38%), then "headache" (34.48%),then "nasal discharge" (17.24%) and the least common was "hyposmia" which appeared in only two patients of group B (6.9%).

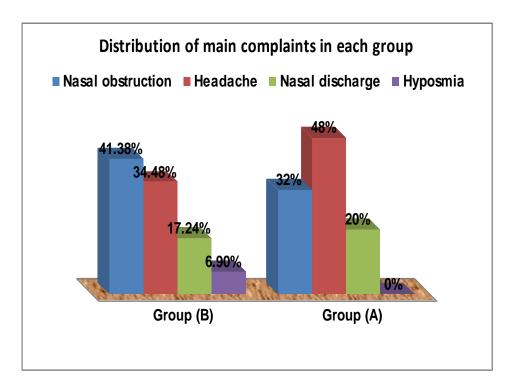


Chart (3): Shows comparison between group A and group B as regard to distribution of the main complaints.

Table (5): Shows comparison between the studied groups regarding presence of AO.

			AO			,
		With (I)	Without (II)	Total	Z	P- value
A	N	6	19	25		
A	%	24%	76%	100%		
В	N	1	28	29	5.02	<0.05
Б	%	3.45%	96.55%	100%	2.02	10.02
Total	N	7	47	54		
Total	%	12.96%	87.04%	100%		

Group (I) consists of the 7 patients whom we discovered to have AO in the fontanelle region during the endoscopic examination (12.96%) of total 54 patients included in the study, while **Group (II)** consists of 47 patients who show no AO in their fontanelle region (87.04%).

In group A, the AO was found in 6 of the 25 patients suffering from maxillary chronic sinusitis (24%), and the subgroup A-I refers to these 6 patients, while the subgroup A-II refers to the other 19 patients.

In group B, AO was found in 1 of the 29 patients (3.45%).

Table 5 shows that there was a statistically significant difference between presence and absence of AO in each group in the study.

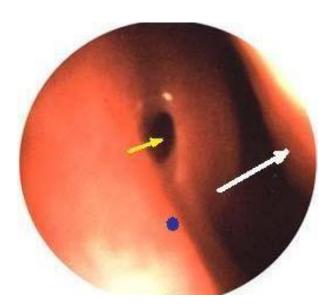


Figure (28): Endoscopic examination photo of the right nasal cavity of (case no. 15 male of 22 years old) using 30° sinoscope showing: (white arrow): MT, (yellow arrow): AO & (blue dot): UP.

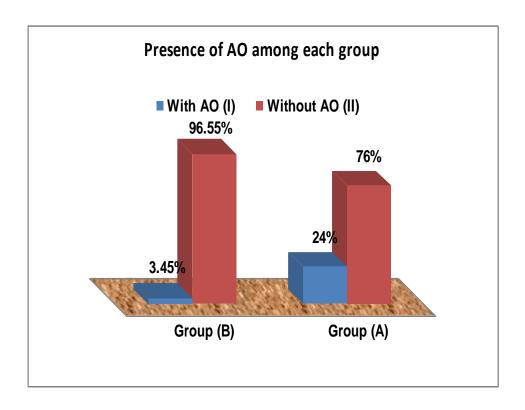


Chart (4): Shows comparison between the studied groups regarding presence of AO.

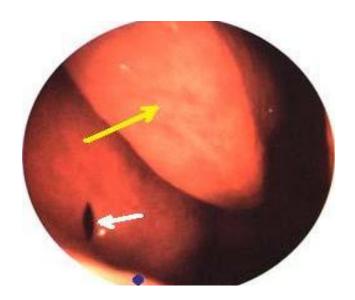


Figure (29): Endoscopic examination photo of the right nasal cavity of (case no. 23 male of 36 years old) using 30° sinoscope showing: (Yellow arrow): MT, (white arrow): AO& blue dot: UP.

Table (6): Shows sex distribution among group I and group II.

		Sex			
		Male	Female	Total	
I	N	3	4	7	
1	%	42.86%	57.14%	100%	
II	N	23	24	47	
11	%	48.94%	51.06%	100%	
Total	N	26	28	54	
Total	%	48.15%	51.85%	100%	

Group I consisted of 7 patients, 3 males and 4 females (42.86%-57.14%) aged 13 - 47 years (an average 27.43 years) while **Group II** consisted of 47 patients, 23 males and 24 females (48.94%-51.06% respectively) aged 14 - 43 years (an average 26.23 years).

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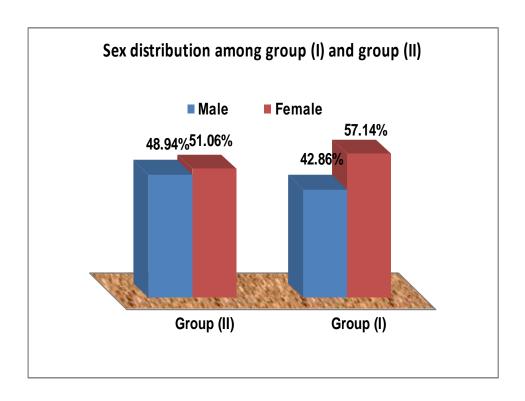


Chart (5): Shows sex distribution among group I and group II.

Table (7): Shows comparison between group I and group II as regard to age.

	Age			
	I	II	Total	
Range (years)	13- 47	14- 43	13- 47	
Mean (years)	27.43	26.23	26.39	
<u>+</u> SD	11.5	7.7		
t. test				
p. value	>(0.05		

Table 7 shows that there was no statistically significant difference between group I and group II as regard to age of presentation.

Table (8): Shows comparison between subgroup A-I and subgroup A-II as regard to distribution of the main complaints.

	A-I		A-II		Total A	
	No.	%	No.	%	No.	%
Nasal obstruction	1	16.67%	7	36.84%	8	32%
Headache	3	50%	9	47.37%	12	48%
Nasal discharge	2	33.33%	3	15.79%	5	20%
Total	6	100%	19	100%	25	100%
\mathbf{X}^2	1.3					
P-value			>	0.05		

In studying the main complaints of subgroup A-I (chronic sinusitis with AO) patients we noticed that the most common complaint was "headache" (50%), then "nasal discharge" was found in (33.33%) and "nasal obstruction" was found in (16.67%), compared with the subgroup A-II (chronic sinusitis without AO) where we found that the most common complaint was "headache" (47.37%), then "nasal obstruction" (36.84%), then the least common was "nasal discharge" (15.79%).

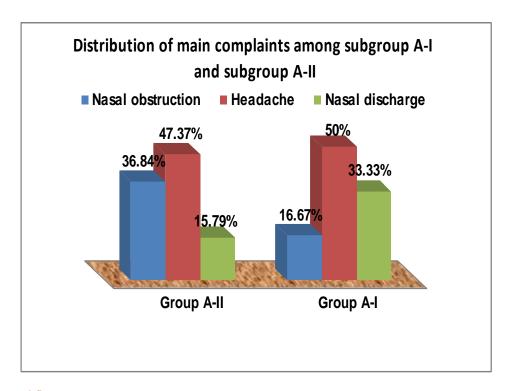


Chart (6): Shows comparison between subgroup A-I and subgroup A-II as regard to distribution of the main complaints.

Table (9): Shows number of unilateral and bilateral AO.

	A	AO		
	No. %			
Unilateral	6	85.71%		
Bilateral	1	14.29%		
Total	7	100%		

In group **I** the AO was bilateral in one patient (14.29%) The defect only in the anterior fontanelle was found in one patient. Both anterior and posterior fontanelle defects were found in one patient (14.29%).

Results and statistics

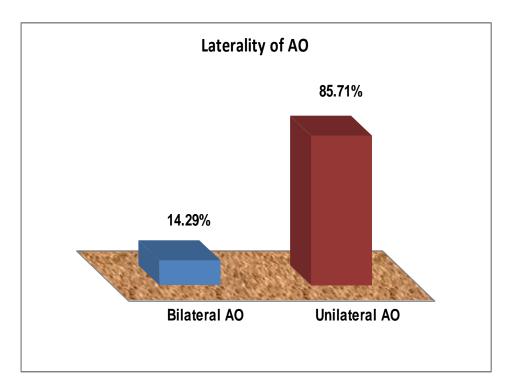


Chart (7): Shows percentage of unilateral and bilateral AO.

Table (10): Shows number of AO with and without circulating mucous.

	AO		
	No.	%	
Without circulating mucous	6	85.71%	
With circulating mucous	1	14.29%	
Total	7	100%	

The circulating mucous was found in one patient (14.29%) of those 7 patients exhibiting AO.

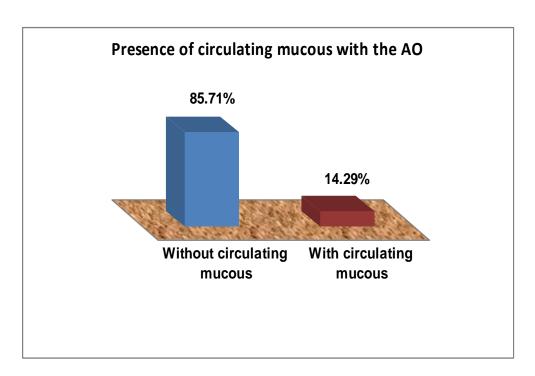


Chart (8): Shows percentage of AO with and without circulating mucous.



Figure (30): Endoscopic examination photo of the right nasal cavity of (case no. 28 male of 47 years old) using 30° sinoscope showing: A streak of pus (yellow arrow) coming out of a posterior AO of The right maxillary sinus. & (white arrow) points to MT.

Table (11): Shows AO position in AF, PF or both

	A	0	
	No. %		
AF	1	14.29%	
PF	5	71.42%	
Both	1	14.29%	
Total	7	100%	

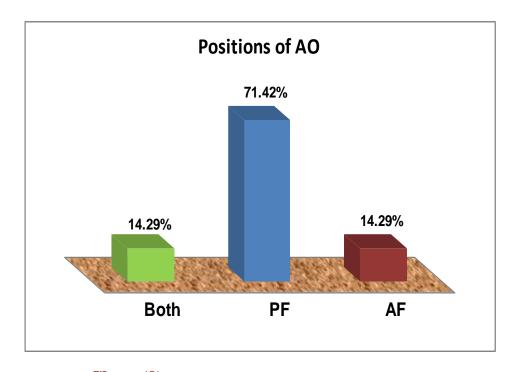


Chart (9): Shows AO position in AF, PF or both.



Figure (31): Endoscopic examination photo of the right nasal cavity of (case no. 52 female of 22 years old) using 30° sinoscope showing: anterior AO (yellow arrow), posterior AO (white arrow) & (blue dot) points to UP.

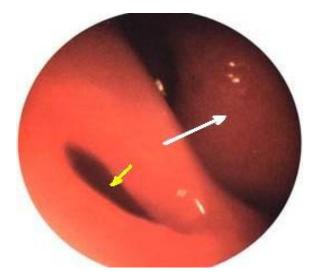


Figure (32): Endoscopic examination photo of the right nasal cavity of (case no. 26 female of 13 years old) using 30° sinoscope showing: anterior AO (yellow arrow) & MT (white arrow).