

## Results

A 25 patients suffering from chronic rhinosinusitis with or without nasal polyposis underwent endoscopic sinus surgery , with one side of the treated with MMC .

And so we have two group :

Group A : 25 sides treated with MMC

Group B : 25 saline sides

The age of the patient vary between 15-42 years old (median 28.5years)  
table (2)

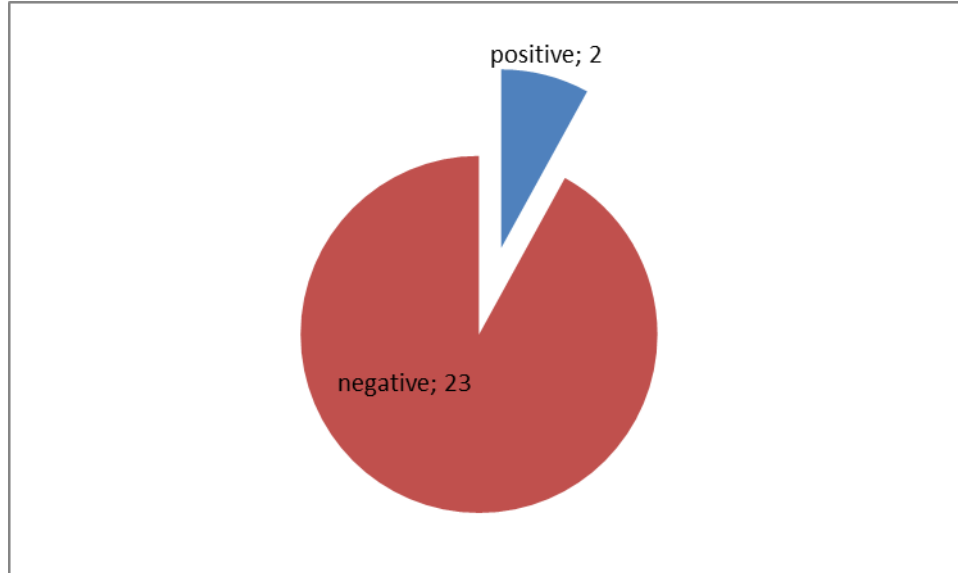
**Table (2) show peaks of age distribution and its median**

	Descriptive Statistics	
	Range	Median
<b>Age</b>	15.000 - 42.000	28.5

There is 2 cases of adhesions occurs in the 25 side treated with mitomycin with P-value < 0.001 as shown in table (3) and diagram (1).

**Table (3) showing the occurrence of adhesions in the MMC side**

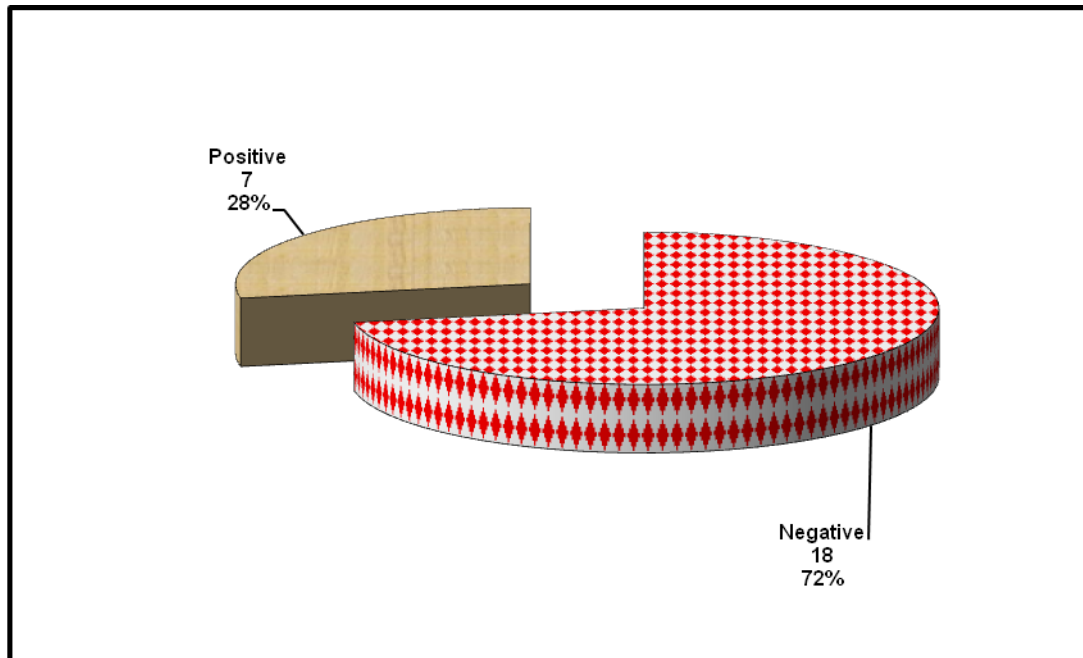
Side of mitomycin		
	N	%
Negative	23	92.00
Positive	2	8.00
Total	25	100.00
Chi-Square	X <sup>2</sup>	17.64
	P-value	<0.001*

**Diagram (1) showing the occurrence of adhesions in the MMC side**

There is 7 cases of adhesions occur in the control side from a total of 25 sides with P-value 0.028 . As shown in table (4) and diagram (2)

**Table (4) : showing the occurrence of adhesions in control side**

Control side		
	N	%
Negative	18	72.00
Positive	7	28.00
Total	25	100.00
Chi-Square	X <sup>2</sup>	4.840
	P-value	0.028*

**Diagram (2) : : showing the occurrence of adhesions in control side**

There is 2 cases of adhesions occur in the MMC treated side while 7 cases of adhesions occur in the control side with a statistically difference of P-value (0.066) .as shown in table (5)

**Table(5) showing the difference between adhesions in control side and MMC side**

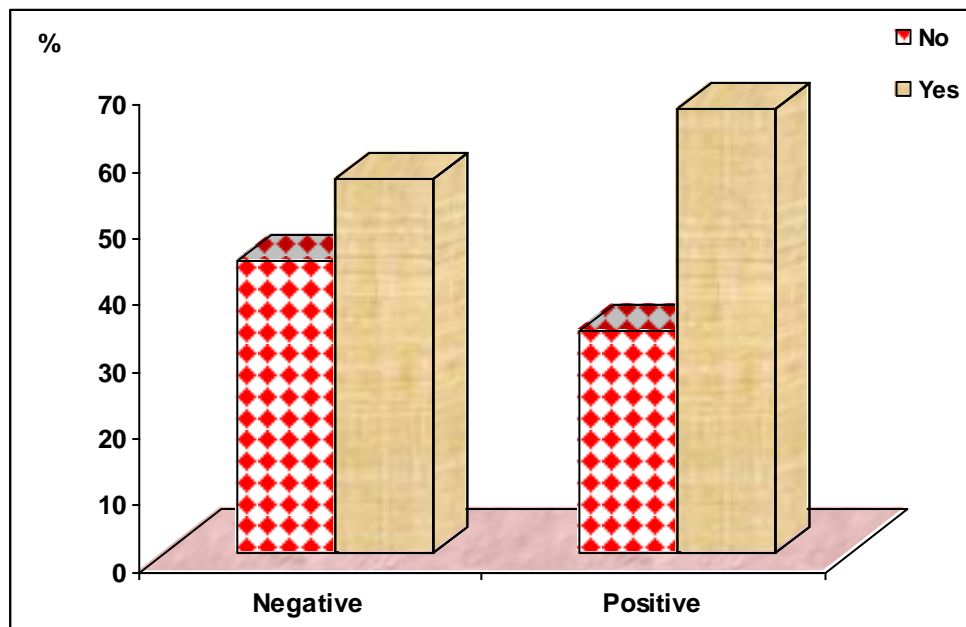
Test side		+ve adhesions	-ve adhesions
MMC treated side		2 (8%)	23 (92%)
Control side		7 (28%)	18 (72%)
Chi-Square	$\chi^2$	3.39	
	P-value	0.066	

The presence of bilateral nasal polypi does not affect the occurrence of adhesions with a non significant P-value 0.608 as shown in table (6) and diagram (3).

**Table (6) : showing the relation between the presence of bilateral nasal polypi and the occurrence of adhesions**

Bilateral nasal polypi		Adhesions		
		Negative	Positive	Total
No	N	7	3	10
	%	43.75	33.33	40.00
Yes	N	9	6	15
	%	56.25	66.67	60.00
Total	N	16	9	25
	%	100.00	100.00	100.00
Chi-Square	$X^2$	0.263		
	P-value	0.608		

**Diagram (3) : showing the relation between the presence of bilateral nasal polypi and the occurrence of adhesions**

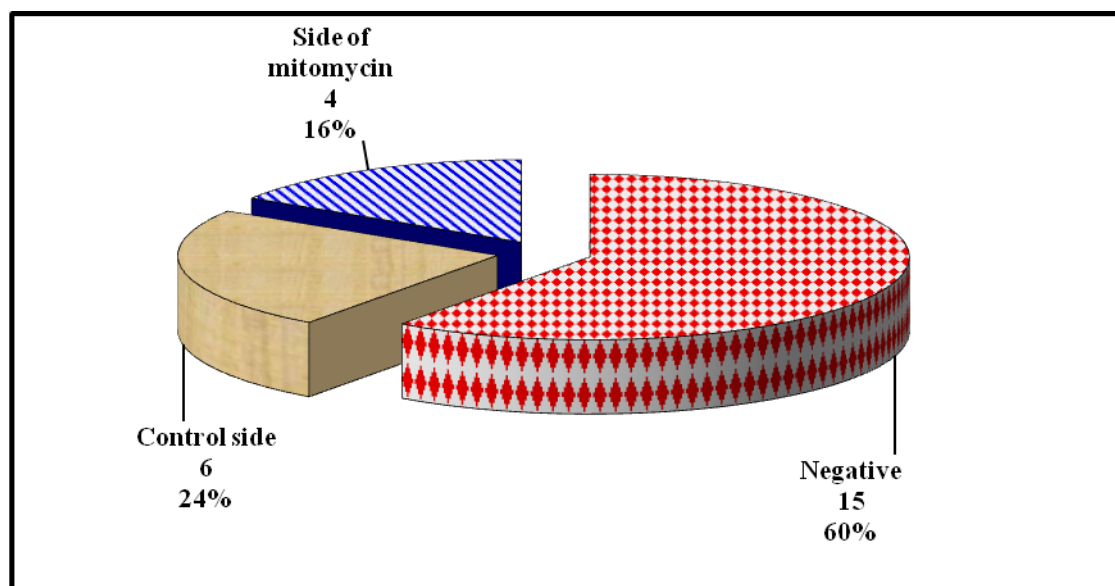


The effect of application of MMC on prevention of occurrence of polypoidal mucosa has no a great value with no significant P value (0.48) as shown in table (7) and diagram (4) .

**Table (7) : showing the relation of occurrence of polypoidal mucosa between the side of MMC and control side .**

Polypidal mucose		
	N	%
Negative	15	60.00
Control side	6	24.00
Side of mitomycin	4	16.00
Total	25	100.00
Chi-Square	$X^2$	0.5
	P-value	0.48

**Diagram (4) : showing the relation of occurrence of polypoidal mucosa between the side of MMC and control side .**



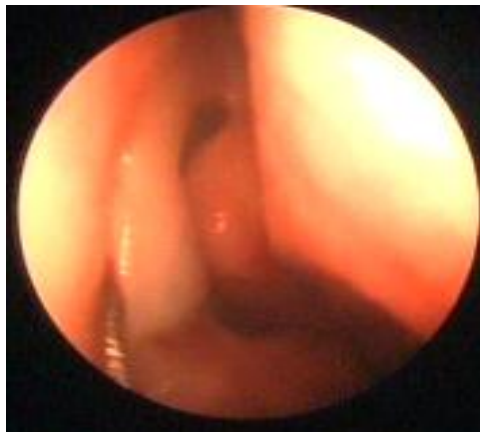
The effect of application of MMC on prevention of occurrence of granulation tissue has no a great value with no significant P value (0.31) as shown in table (8) .

**Table (8): showing the relation of occurrence of granulation tissue between the side of MMC and control side ..**

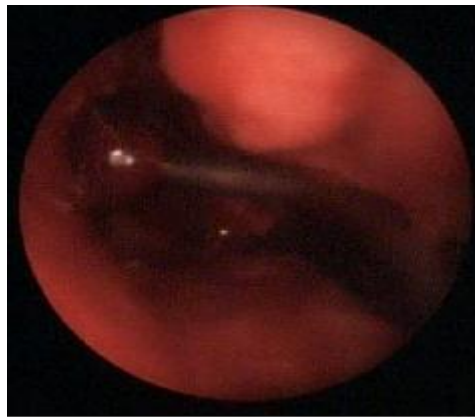
Granulation tissue		
	N	%
Negative	14	56.00
Control side	7	28.00
Side of mitomycin	4	16.00
Total	25	100.00
Chi-Square	X <sup>2</sup>	1.05
	P-value	0.31



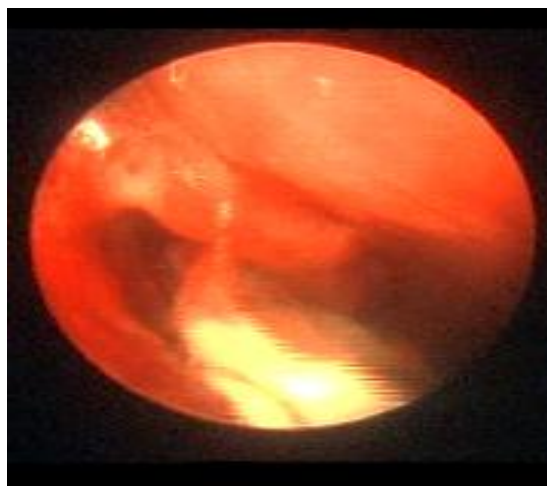
**Fig.32** endoscopic view with a 0° telescope showing  
Nasal polyps in the right side.



**Fig.33** showing uncinectomy with sickle knife  
In the right side .



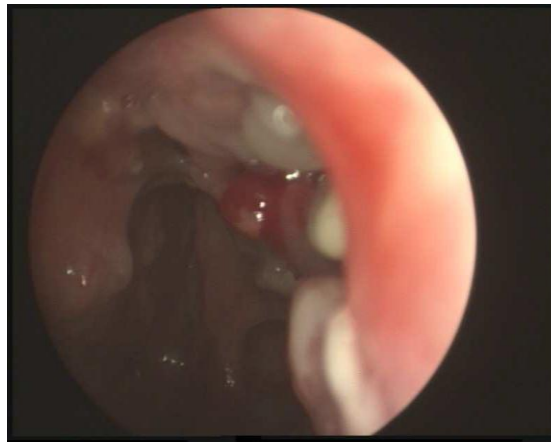
**Fig.34** maxillary antrostomy was done and the curved suction was inside the right maxillary sinus.



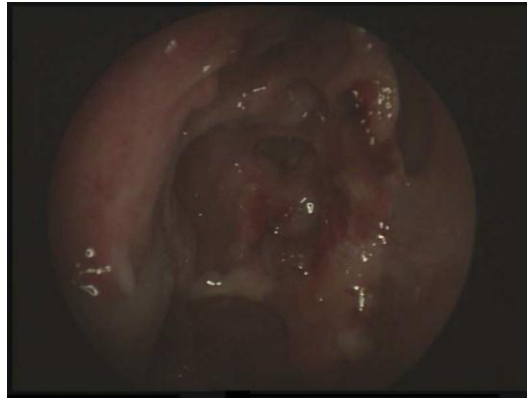
**Fig.35** cotton pledget soaked with 0.4mg/ml MMC Was putting in the middle meatus after completion of sinus surgery.



**Fig.36** showing adhesions in the left middle Meatus (control side) between the middle turbinate and the lateral nasal wall 4 weeks post operative.



**Fig.37** showing polypoidal mucosa in the left Middle meatus (control side) 6 weeks post operative Of a case of bilateral nasal polyposis.



**Fig.38** showing granulation tissue formation in  
the left middle meatus (MMC treated side)  
about 7 weeks postoperative