



RESULTS

RESULTS

This study included 90 adult patients, they were divided into three groups : the epinephrine group "group A" in which epinephrine injection (1:100,000) was used to control bleeding, saline "group B" in which normal saline was used for comparison with the epinephrine injection and control group "group C" no infiltration.

The age range was 18 to 45 years with a mean of "25.7" for control group, "23.4" for epinephrine group and "23.9" for saline group.

No statistically significant difference could be found according to the age of the patients (Table 1. $P>0.05$).

The weight of the patients range was 45 to 82 Kg with a mean of "58.1" for control group, "57.7" for epinephrine group and (55.2) for control group. (Fig. 1)

No statistically significant difference could be found according to the weight. (table 2. $P>0.05$). (Fig. 2)

Table 1

Comparative values for age of the patients :

Groups	N	$\bar{x} \pm S.D$	
Control	30	25.7	5.135
Groups A	30	23.4333	6.452
Groups B	30	23.9	6.205

Groups	Analysis	
	T	P
Control Vs Group A	6.06	> 0.05
Control Vs Group B	4.47	> 0.05
Groups A Vs Group B	1.57	> 0.05

X. : Mean value

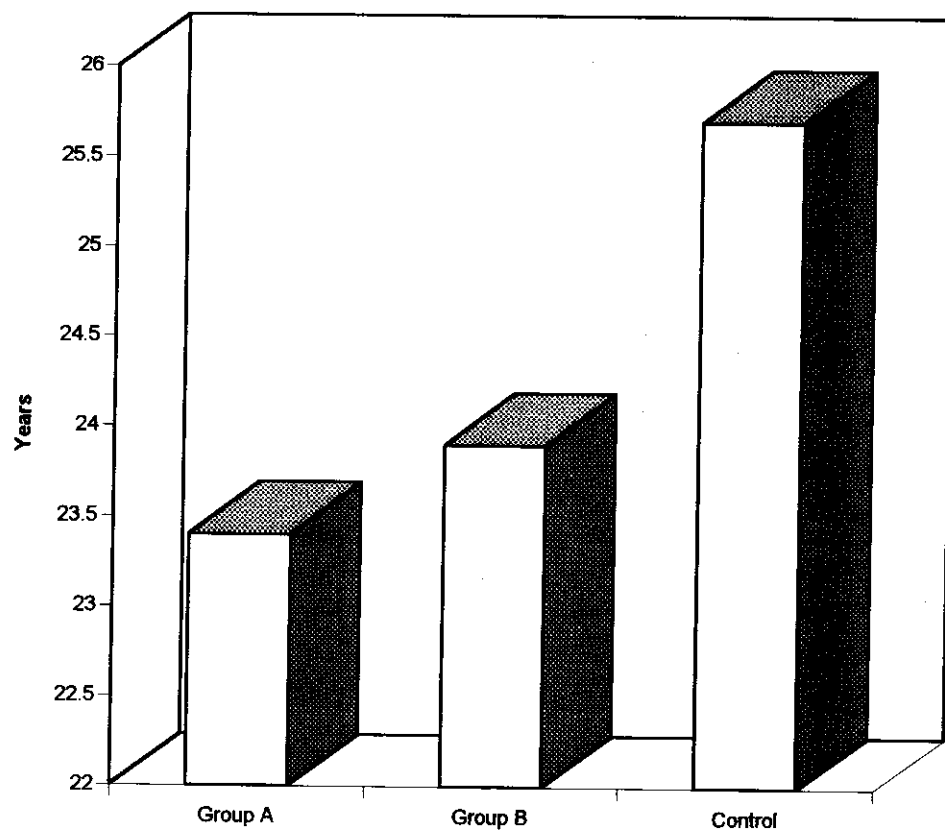
SD. : Standard Deviation

T. : T-test

P. : Possibility of error

Vs : Versus.

Fig. (1) : Comparative Values For Age Of The Patients



**Fig. (2) :Comparative Values For Weight Of
The Patients**

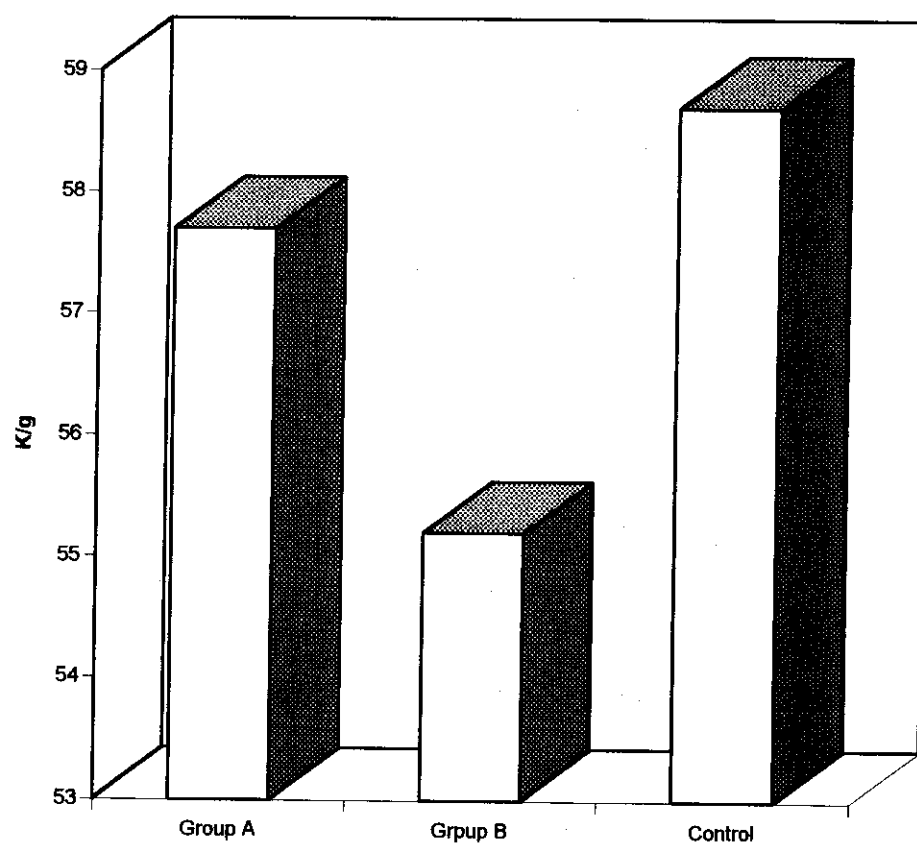


Table 2

Comparative values for weight of the patients :

Groups	N	x±S.D	
Control	30	58.7333	9.706
Groups A	30	57.7333	8.714
Groups B	30	55.2	6.995

Groups	Analysis	
	T	P
Control Vs Group A	2.30	> 0.05
Control Vs Group B	8.85	> 0.05
Groups A Vs Group B	6.79	> 0.05

X. : Mean value

SD. : Standard Deviation

T. : Test

P. : Possibility of error

Vs : Versus.

The results obtained from the intraoperative blood loss during tonsillectomy showed that : a very highly significant decrease for patients injected with epinephrine (mean 26.6) versus the control group (mean 115.3) (table 3_ $P < 0.001$) and also significant versus the saline group (mean 58.5) (table 3_ $p < 0.05$). (Fig. 3).

Saline group did, however, significantly reduce operative bleeding when compared to controls ($P < 0.05$ table 3).

While in control group where no infiltration the blood loss about two-or three times more than those in the other two groups. (Fig. 3)

Table 3

Comparative values for blood loss during tonsillectomy :

Groups	N	x±S.D	
Control	30	115.367	20.06
Group A	30	26.6	5.73
Group B	30	58.5	9.54

Groups	Analysis	
	T	P
Control Vs Group A	127.69	< 0.01
* Control Vs Group B	16.86	< 0.05
Group A Vs Group B	85.97	< 0.05

* Significant

X. : Mean value

SD. : Standard Deviation

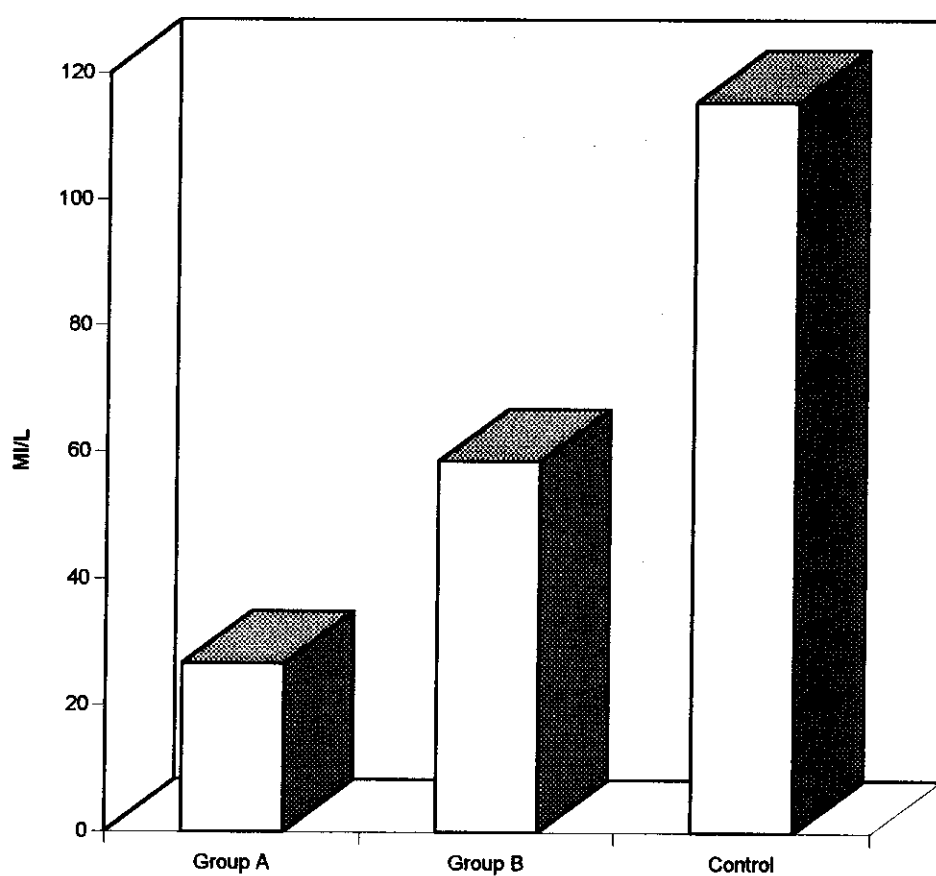
T. : T-test

P. : Possibility of error

Vs : Versus.

N : Number

**Fig. (3) : Comparative Values For Blood Loss
During Tonsillectomy In The Three Groups**



The over all difference in analysis regarding the time of dissection showed a very highly significant decrease in patient injected with epinephrine versus control group ($P < 0.01$) Table 4) and statistically significant versus saline group ($P < 0.05$ Table 4). (Fig. 4).

Table 4

Comparative values for time of dissection

Groups	N	x±S.D	
Control	30	32.4	4.53
Group A	30	23.1667	3.5
Group B	30	28.9333	3.92

Groups	Analysis	
	T	P
Control Vs Group A	48.24	< 0.01
Control Vs Group B	7.30	> 0.05
Group A Vs Group B	32.75	< 0.05

* Significant

X. : Mean value

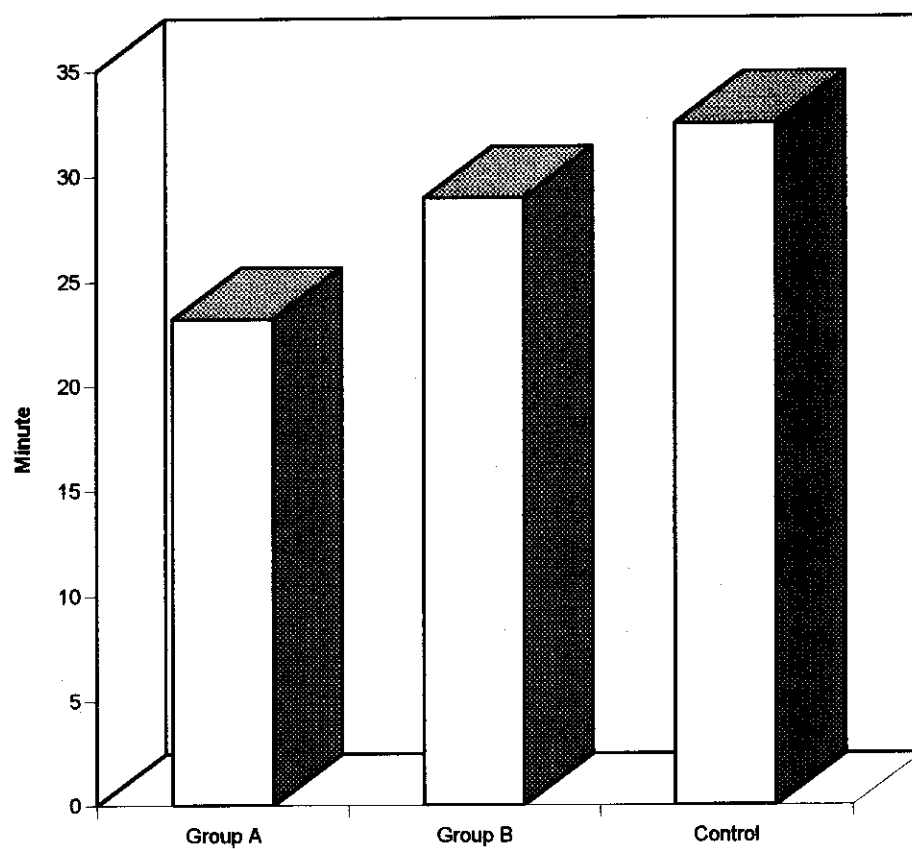
SD. : Standard Deviation

T. : Test

P. : Possibility of error

Vs : Versus.

Fig. (4) : Comparative Values For Time Of Dissection During Tonsillectomy



The over all difference in analysis regarding the plus of the patients showed statistically significant increase in patients injected with epinephrine. group A. with mean of (135.3) versus control group with mean of (108.5) ($P < 0.01$ Table 5) and also statistically significant versus saline group with mean of (108.6) ($P < 0.01$ Table 5). (Fig. 5).

Table 5

Comparative values for pulse during tonsillectomy

Groups	N	x±S.D	
Control	30	108.567	4.82
Group A	30	135.367	4.07
Group B	30	108.067	4.67

Groups	Analysis	
	T	P
*Control Vs Group A	126.82	< 0.01
Control Vs Group B	2.22	> 0.05
*Group A Vs Group B	132.67	< 0.01

* Significant

X. : Mean value

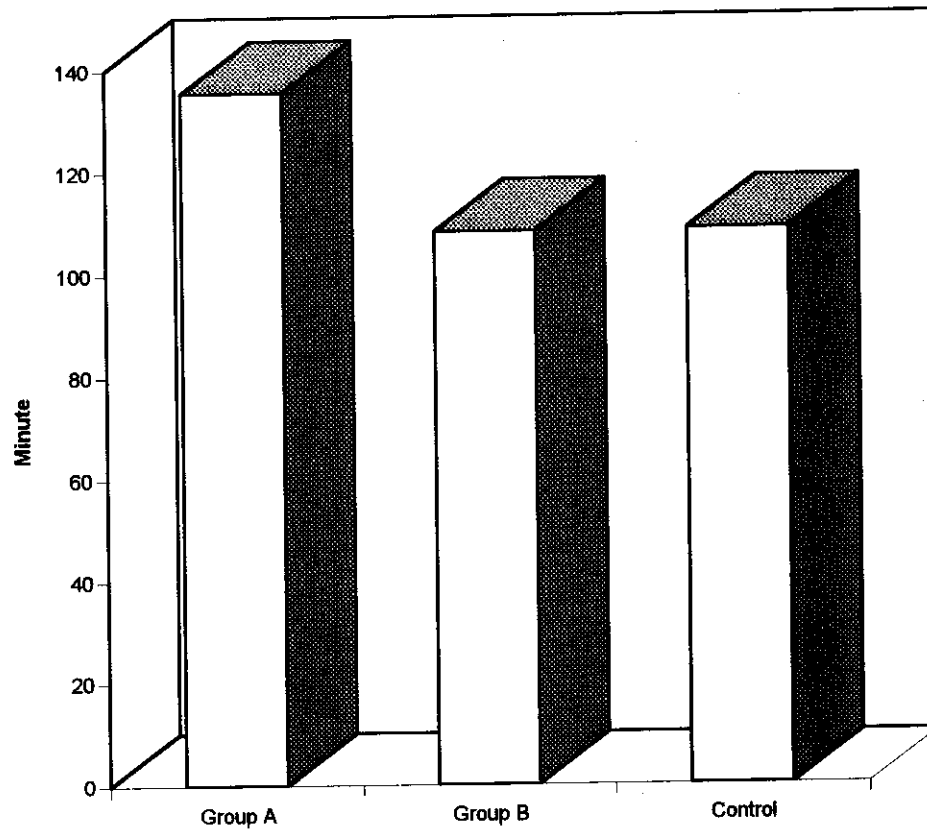
SD. : Standard Deviation

T. : Test

P. : Possibility of error

Vs : Versus.

Fig. (5) : Comparative Values For Pulse During Tonsillectomy



There was statistically significant increase in the blood pressure in patients injected with epinephrine group A with mean of (137.6) versus the control group with mean of (121.2) ($P < 0.001$ Table 6) and also statistically significant increase versus the saline group (group B) with mean of (125.7) ($P < 0.01$ Table 6). (Fig. 6)

Table 6

Comparative values for systolic blood pressure during tonsillectomy

Groups	N	x±S.D	
Control	30	121.2	5.529
Group A	30	137.627	4.217
Group B	30	125.767	5.150

Groups	Analysis	
	T	P
*Control Vs Group A	69.72	< 0.01
Control Vs Group B	8.22	> 0.05
*Group A Vs Group B	51.83	< 0.01

* Significant

X. : Mean value

SD. : Standard Deviation

T. : Test

P. : Possibility of error

Vs : Versus.

Fig. (6) : Comparative Values For Blood Pressure During Tonsillectomy

