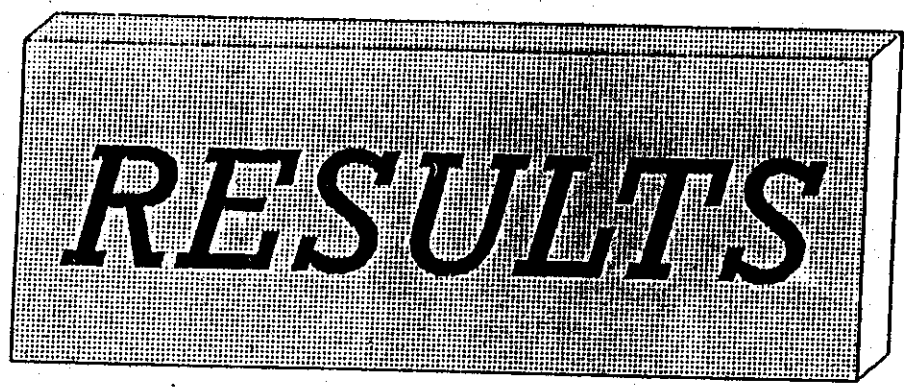

RESULTS

RESULTS

The present study was carried out on 30 patients with age range from 5-15 years compared with a standard control, out of the 30 patients there were 18 famales and 12 males.

The study of standard IgG level had the following results (Table II).

Range: (532-1457mg/dL).

Mean value: (817.4 ± 93.60 mg /dL).

S.D value: (296. 005mg /dL) .

The study of standard IgM level had the following results (Table III).

Range: (93-181 mg/dL).

Mean value: (120.5±8.12 mg/dL).

S.D value: (25.67mg/dL).

pre-operative levels

The study of pre-opreative serum IgG levels measured for our patients one week before tonsillectomy had the following results (Table II).

Range: (777-1512 mg/dL).

Mean value: (1153.866 ±38 mg/dL).

S.D value: (208.14mg/dL).

The study of pre-opreative serum IgM levels measured for our patients one week before tonsillectomy had the following results (Table III).

Range: (108-218mg/dL).

Mean value: (162.4 ± 6.466 mg/dL).

S.D value: (35.418mg/dL).

Post-operative levels

The study of post-opreative serum IgG levels measured for our patients one month after tonsillectomy had the following results (Table II).

Range value: (651-1457 mg/dL).

Mean value: (977.9±40.1 mg/dL).

S.D value: (219.68mg/dL).

The study of post-opreative serum IgM levels measured for our patients one month after tonsillectomy had the following results (Table III).

Range: (108 - 173 mg/dL).

Mean value: (128.8 ± 3.583 mg/dL).

S.D value: (19.624 mg/dL).

Fig. (7): IgG -Nor Partigen plate showing precipitation rings.

Fig. (8): IgM -Nor partigen plate showing precipitation rings.

Results Of Histopathological Examination

Examination of the removed tonsil under the microscope revealed the signs of chronic infection such as:

1) Ulcerative epithelium as in plate.(1)

2) Subepithelial fibrosis as in plate.(2)

3) Hypertrophic follicle as in plate.(3)

4) Atrophic follicle as in plate. (4)

5) Increased vascularity and thick wall blood vessels with fibrous tissues and R.B.Cs "infiltration as in plate" (5).

6) Infiltration with chronic inflammatory cells such as lymphocytes, fibroblasts macrophages as in plate (6) (7) (8).

7) Presence of intratonsiller abscess as in olate (9).

plate (1) Showing Ulcerative epithelium

Plate (2) showing Subepithelial Fibrosis

Palte (3) showing hypertorphic follicle

Plate (4) showing atrophic follicle

Plant (5) showing Increased vasculaeity and thick wall blood vessels with fibroustissues and R.B.Cs infiltration.

plate (6) showing Infitration with chronic infammatory cells such as lymphocytes

plate (7) showing Fibroblasts

Plate (8) showing Macrophages

Plate (9) Showing Presence of intraonsiller abscess

Statistical Analysis

For comparison between IgG levels pre-and post operative (Table IV), the (t) test calculated had a value of (3.185.) indicating high significant difference between the two levels, also for comparison between pre-operative IgG serum levels and control levles (Table V), the (t) test calculated had a value of (3.323) indicating high significant difference between the two levels. But for comparison between post-operative IgG serum levels and control levels (Table VI), the (t) test calculated had a value of (1.576) indicating psresence of no significant difference between the two levels.

For comparison between pre-operative serum IgM levels and post-operative serum levels (Table VII), the (t) test calculated had a value of (4.545) indicating presence of high significant difference between the two levels, also for comparison between pre-operative serum IgM levels and control levels (Table VIII), the (t) test calculated had a value of (4.04) indicating presence of high significant differance between the two levels.

For comparison between post-operative serum IgM level and control levels (Table IX), (t) test calculated had a value of (0.94) indicating presence of no significant difference between the two levels.

Table (II)
Ig(G)

		Number		
	Range	*Pre-operative*	*Post-operative*	*Control*
	500-700	-	4	5
	701-900	3	7	2
	901-1100	10	12	1
	1101-1300	10	5	1
	1301-1512	7	2	1
Total number		**30**	**30**	**10**
	Mean	1153.866	977.9	817.4
	S.D	208.14	219.68	296.005
	S.E	±38	± 40.1	± 93.60

Table (III):
IgM

		Number		
	Range	*Pre-Operative*	*Post-operative*	*Control*
	90-120	6	12	6
	121-150	6	14	3
	151-180	6	4	-
	181-210	10	-	1
	211-240	2	-	-
Total number		**30**	**30**	**10**
	Mean	162.4	128.8	120.5
	S.D	35.418	19.624	25.67
	S.E	± 6.466	±3.583	± 8.12

Table (IV)
IgG

Comparison between Pre-and post-operative levels.

Group	*Mean ± S.E*	*t. test*	*P. value*	*Significance*
Pre-operative	1153.866±38	3.185	<0.01	Highly Significant
Post-Operative	977.9±40.1			

Table V
IgG

Comparison between pre-operative and standard control levels

Group	*Mean±S.E*	*(t) test*	*P. value*
Pre-operative	1153.866±38		
		3.323	Highly significant
Standard control	817.4±93.60		

Table IV
IgG

Comparison between-Postoperative and Standard control levels

Group	*Mean±S.E*	*(t) test*	*P. value*
Pre-operative	977.9±40.1		
		1.576	Non Significant
Standard control	817.4±93.60		

Table VII
IgM

Comparison between pre and post-operative levels.

Group	*Mean±S.E*	*(t) test*	*P. value*
Pre-operative	162.4±5.477		
		4.545	Highly Significant
Post-operative	128.8±3.583		

Table VIII
IgM

Comparison between pre-operative and control levels

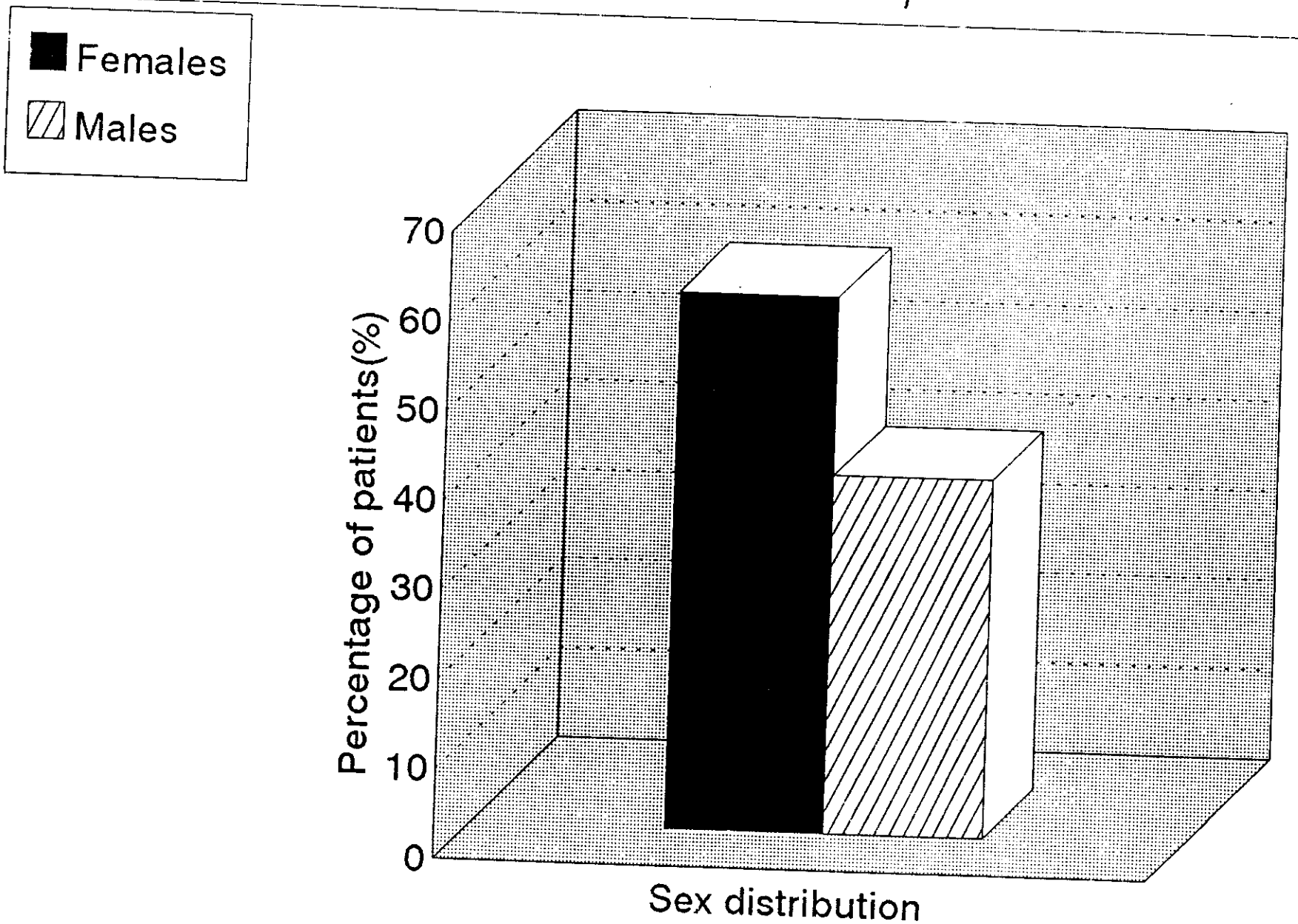
Group	*Mean±S.E*	*(t) test*	*P. value*
Pre-operative	162.4±6.466		
		4.04	Highly significant
Standard Control	120.5±8.12		

Table IX
IgM

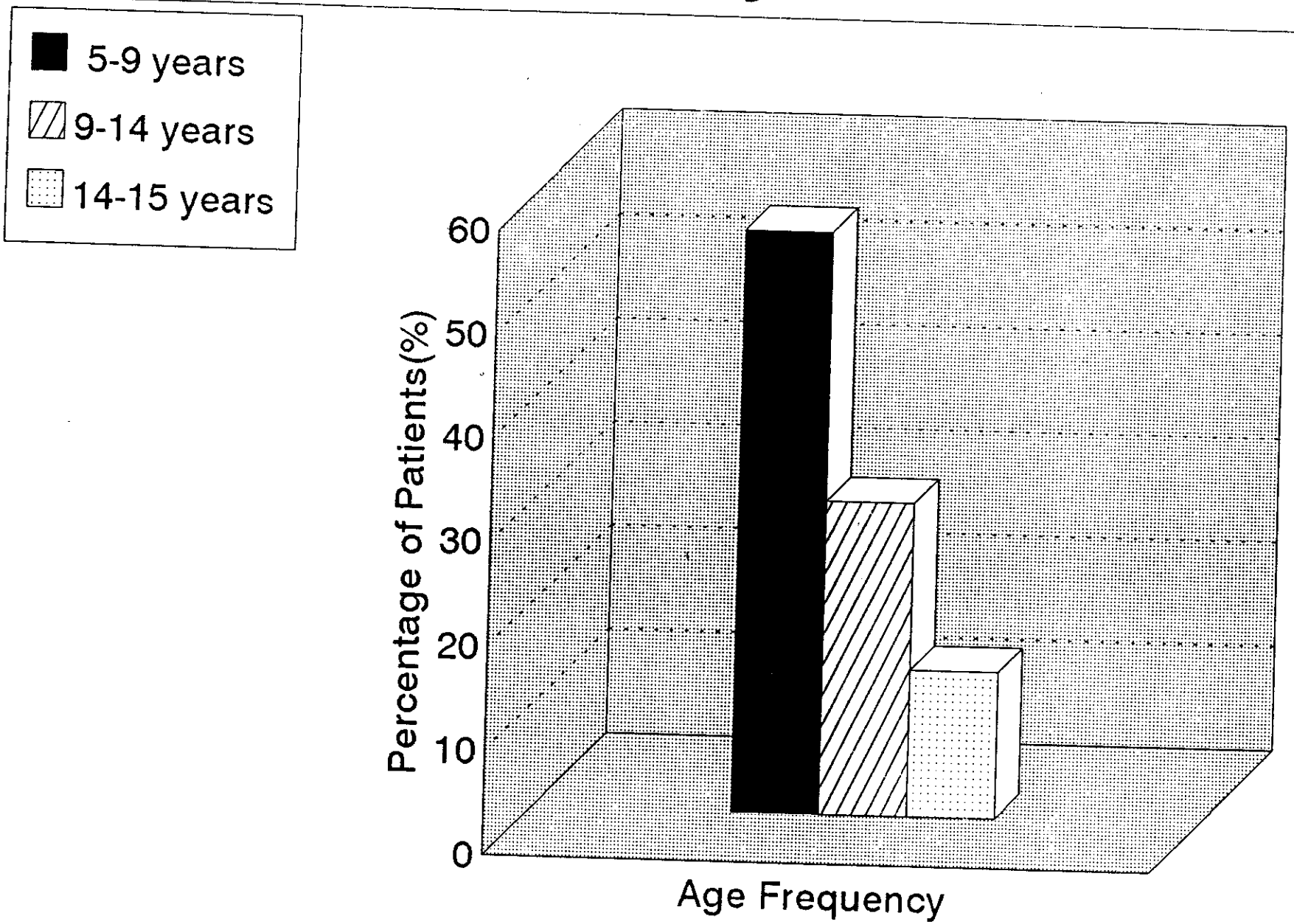
Comparison between post-operative and Standard control levels

Group	*Mean±S.E*	*(t) test*	*P. value*
Post-operative	128.8±3.583		
		0.94	Non significant
Standared control	120.5±8.12		

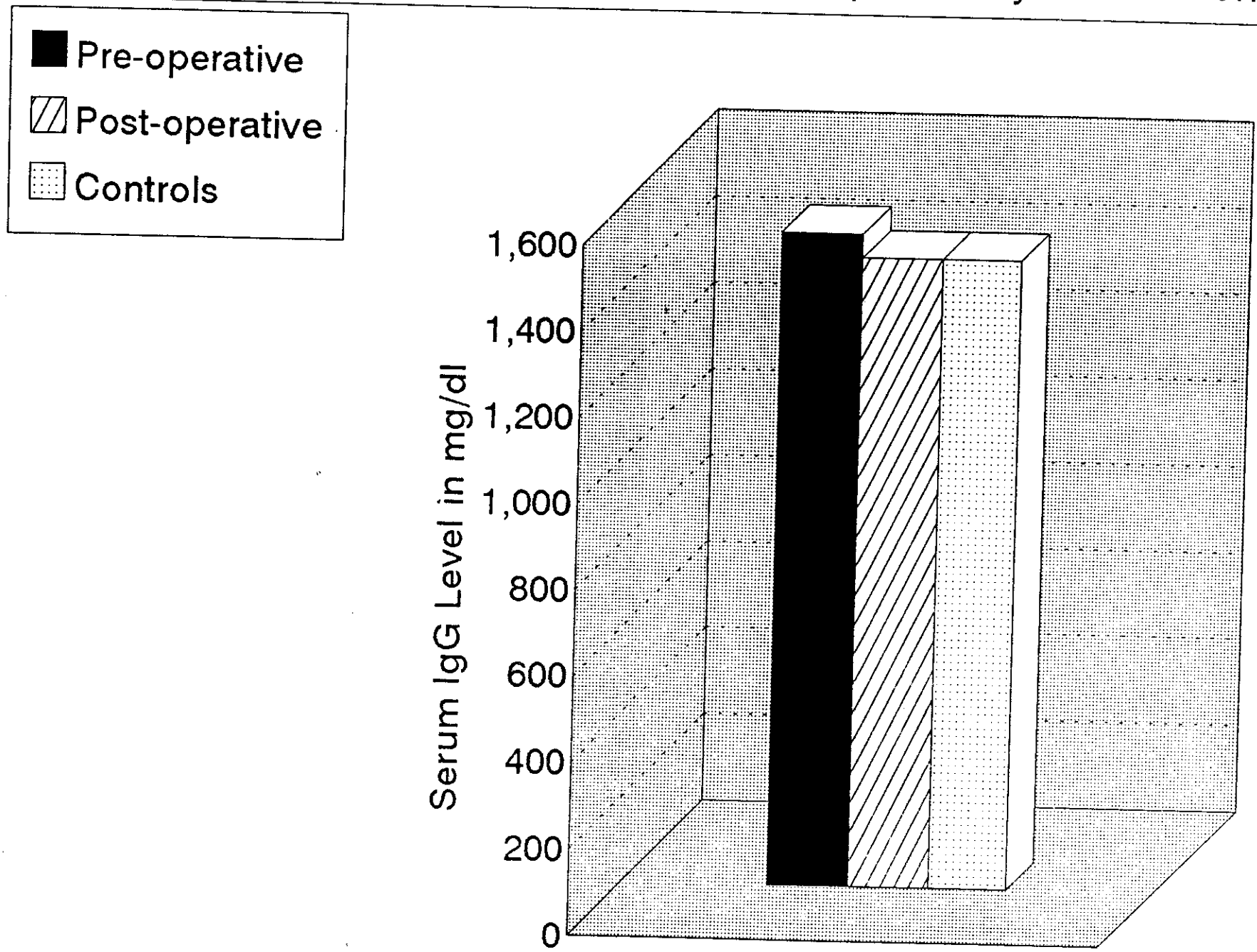
Sex distribution in patients



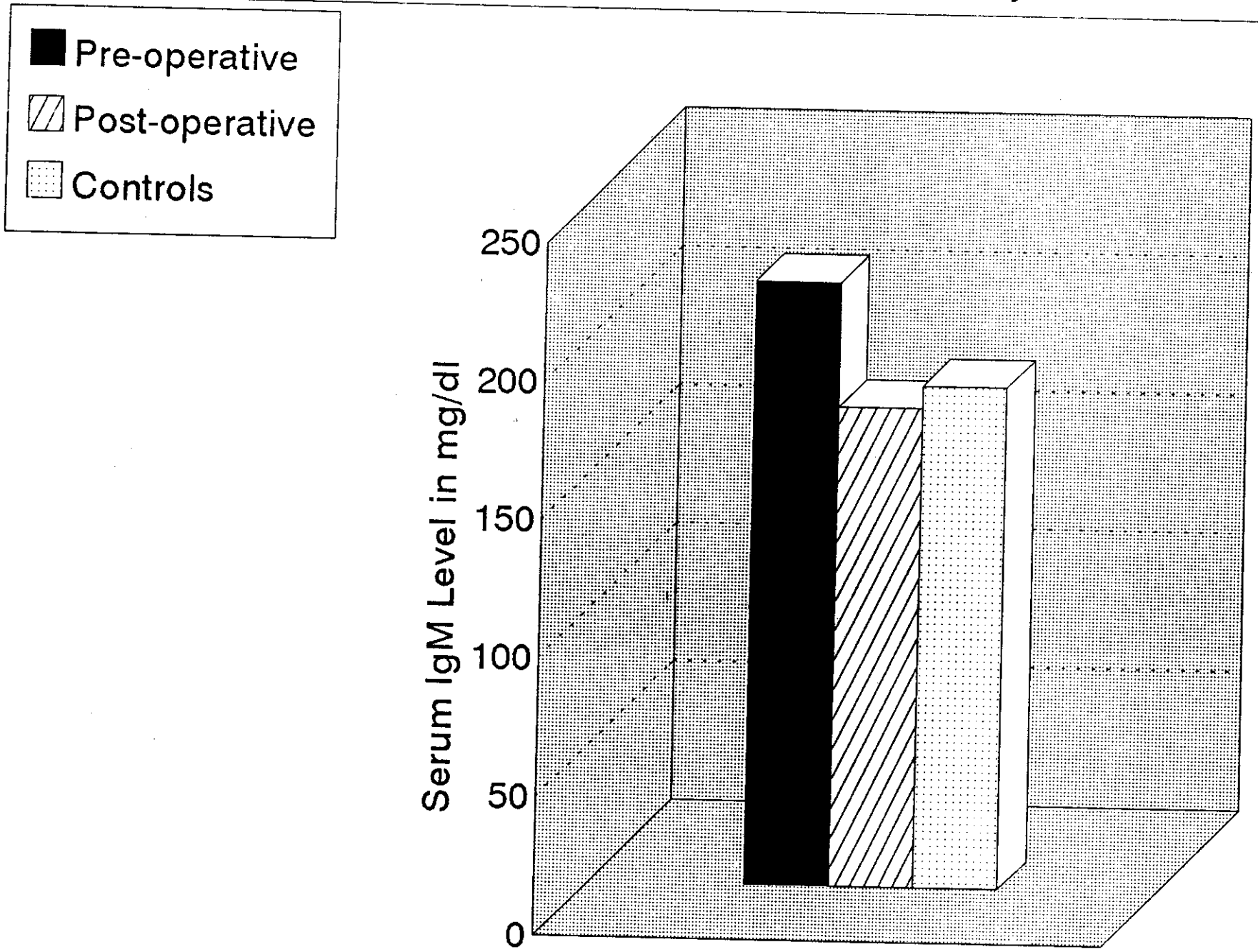
Age Frequency of Patients

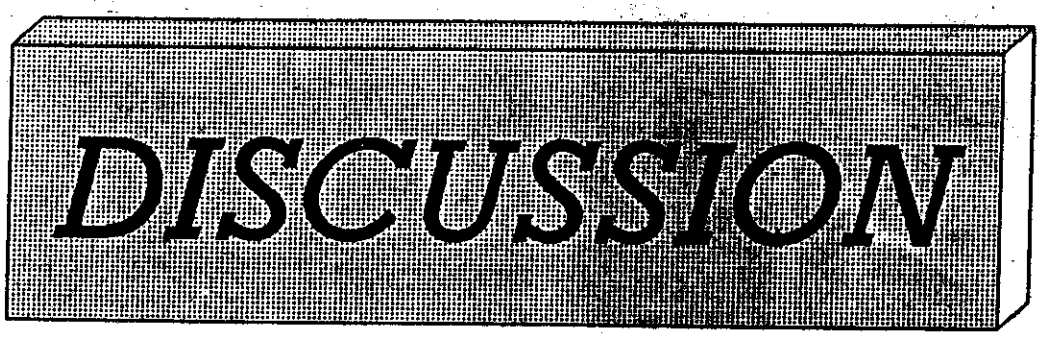


Serum IgG Level in Patients Pre-and Post-operatively and in Controls



Serum IgM Level in Patients Pre-and Post-operatively and in Controls




DISCUSSION