ACTA MEDICA-IRANICA Vol. 29.1987.P. 61

BREAST MASSES IN ADOLESCENT PATIENTS IN IRAN

REZA SHAMS M.D.*
FOROUZANDEH FEREIDOONI M.D.*

There are very few reports on breast masses in adolescent patients (1,2,3). Published studies of breast lesions have not discrimiated between the lesions found in adolescent and those in other age groups.

Adolescent is the period during which major changes occur in hormonal pattenrs(4), and this directly affects mammary tissue in both sexes. Most masses in adolescent breasts are inflammatory lesions or benign neopplasms (1-4).

There is a few but significant incidence of malignancy in this age group (6)

There is often considerable delay in seeking medical attention for breast masses in adolescent.

This may be due to embarrassment in seeking a phisician's advice about a sensitive anatomic area or fear of malignancy enhanced by the current custom of self-examination of many adult patients and some adolescent.

AT 12 TO SECUL SE SE

^{*} Department of General surgery Sina Hospital Tehran University.

^{**}Cancer Institute-School of Medicine, University of Tehran.

To determine the frequency of different breast masses in adolescent on whom surgery was performed, a retrospective study of adolescent admitted to the hospital for surgery was carried out.

MATERIAL AND METHODS

The Hospital records are of Emam Khomeini medical center and Sina Hospital of medical school of Tehran Univercity.

All patients with breast masses admitted from 1972-1985 for surgery from age eleven to age twenty years (total 323).

In sixty-one male in our study, the greatest incidence of breast masses was at eighteen years of age (Figure 1), and all of them had histologic diagnosis of gynecomastia. The findings, on the 262 adolescent females are summazized in Table 1. The incidence per age is potted in Figure 2 and revealed gradual increase through adolescent.

COMMENT:

Studies of breast masses in the literature have been concerned mostly with adults because of the greater frequency of serious disease (1-3).

They are do not recognize the significant incidence of breast problems during adolescent.

All adolescent males admitted for surgery in our study were found to have gynceomastia on histologic examination.

n de de r-referent de entrada de de de la carritera en dar de la del de la carritera de la cara de carritera d

CORR IN IN THE PARTY OF THE PAR

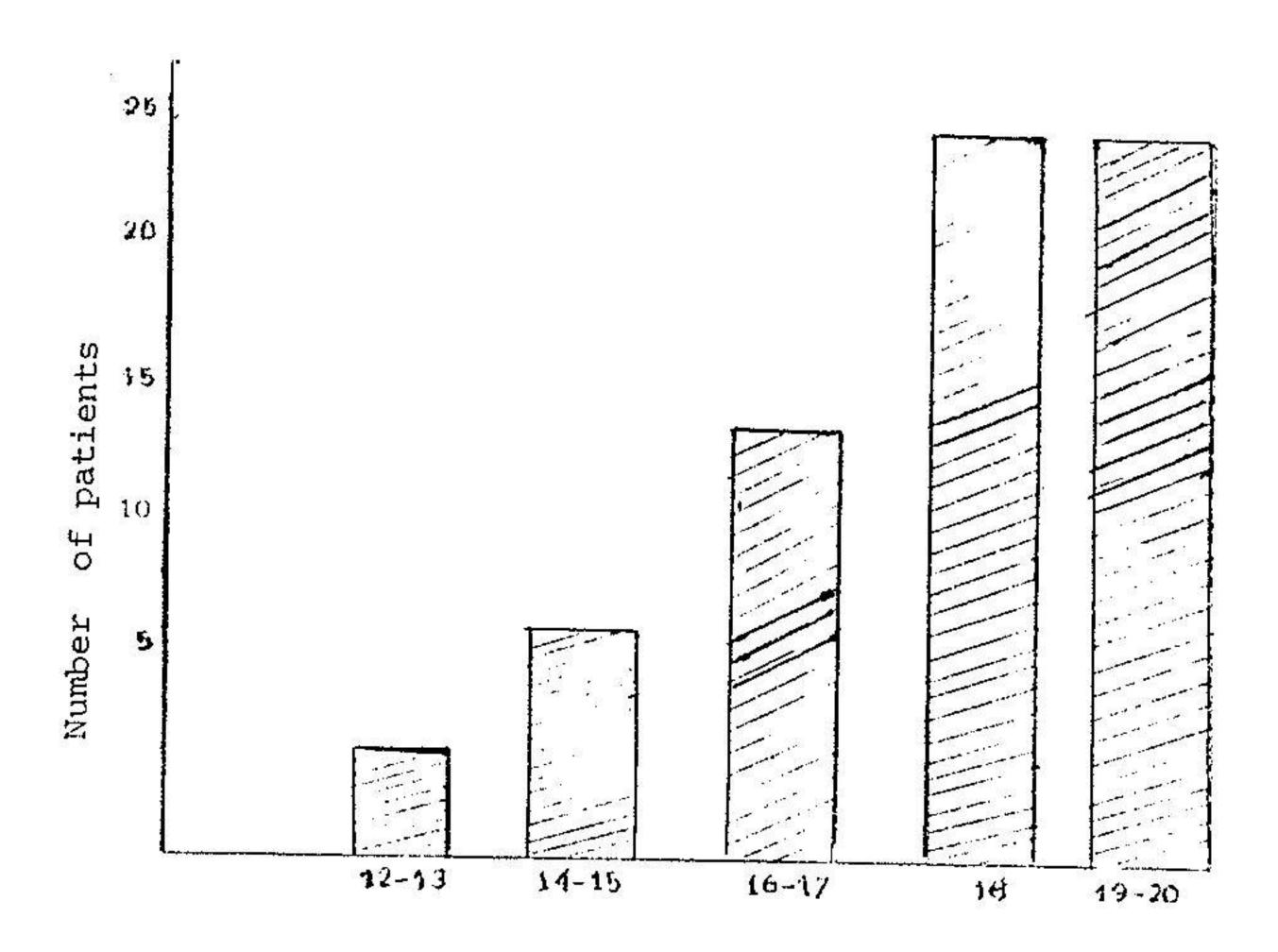


Figure 1. Incidence of adolescent male breast masses according to age.

ar sina sina sina pina ²sina iso na sa nangarananan nangaran an anaman as an anaman manaman na sina ²

They were all treated by excision for diagnostic and cosmetic indications.

The incidence of true neoplasms in the breast of adolescent male is low & none was found in our series. The risk of malignancy in adolescent male breasts, through extremely small, dose exist (7)

Table 1 adolescent	breast	ast	masses	es in		female	pat	patients	tO.		
	Number	ber	of p	patients		According	rdin	g to	age (yr)	(yr)	tot
Diagnosis	12	13	14	1.5	16	17	18	19	20	8	
Fubroadenoma	0	0	ю	12	28	31	43	42	51	212	%80
Lactating adenoma	0	0	0	-1	0	0	Н	0	—	m	% H
Mammary displasia	0	0	Ч	0	7	Н	2	Н	7	σ	% 3
Ductal papilloma	0	0	0	0	Н	Н	Н	H	0	4	% 1
Fibrocystic disease	Q	0	0	Н	႕	m	က	2	9	16	%6.
Cystosarcoma phyllodes	0	0	Ħ	0	7	Н	Н	7	Н	8	%
Stroma sarcoma	0	0	0	0	-1	0	0	0	H	7	%0%
Adenocarcinoma	0	0	0	0	0	0	Н	2	2	ω	96 W
Total	0	2	5	14	35	37	52	20	29	262	%10

RESIDENCE RESIDENCE RESIDENCE REPORTED REPORTED FOR REPORTED FOR REPORTED R

na rara Kerrara bara rarara na mana na mana manda manda manda manda manda manda manda manda ara ara rara manda

en de de la completa del completa de la completa del completa de la completa del la completa de la completa de

Although breast disease is thought of as primarily a female surgical problem, 18 percent of our adolescents having breast surgery were male.

The spectrum and incidence of breast masses in adolescent female were markedly different than in males. Fibroadenoma was the most common lesion (80/9 p. cent) in this series of 262 adolescent females, finding consistent with other surveys of adolescent breast masses (1-2).

The several largest series of adolescent breast masses in recent literature had no primary malignancies. In our study 15 cases had malignancies. This emphasizes the necessity of biopsy for all patient breast masses (6).

As a result of these findings, all breast masses in adolescent females that persist langer than one or two menstrual cycles are excised for histologic examination

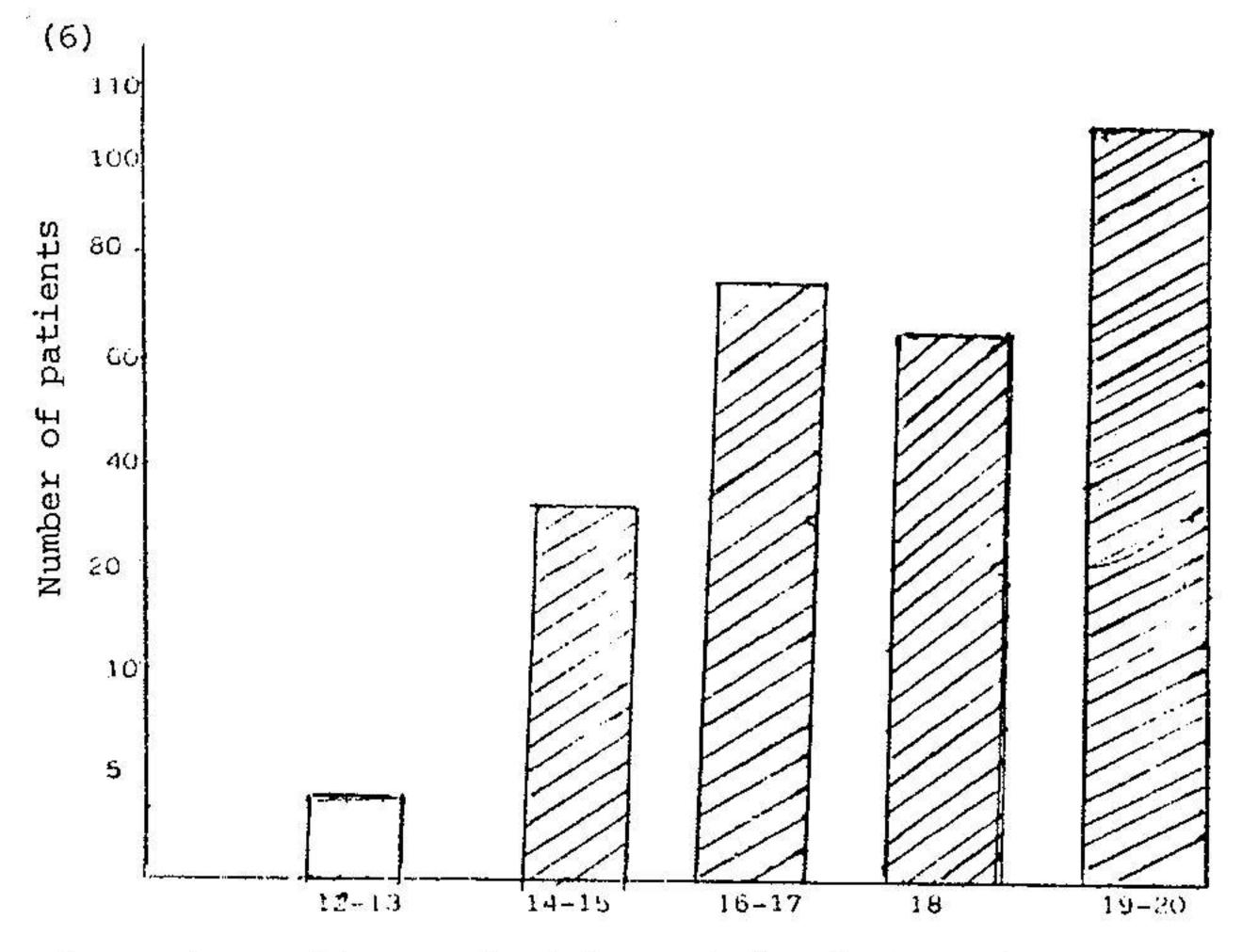


Figure 2. Incidence of adolescent female breast masses according to age.

mentro de mestro e o de la compación de la comp

SUMMARY

Breast masses in adolescent are common. In males, almost all are gynecomastia. Surgical intervention may be required for cosmetic and psycologic reasons. There appears to be little risk of malignancy in these patients.

In females, fibroadenoma are the most common breast masses. There are benign neoplasms that should be removed if presistent.

Fibroadenomas increase in frequency with age during adolescence. Careful observation and reassurance followed by surgical excision if the mass persists is recommended. Norris and Taylor in a series of 24 cases of cystosarcomas phyllodes encountered 3 cases being before 20 years of age. This is in contrast to our finding of so high incidnece (8 cases between 12-20 years of age). (9)

REFERENCES

- 1. Sandisan At, Walker JC. Disease of the adolescent female breast. Br.J.Surg 1968 55-443-&.
- 2. Stone AM. Shenker IR, MC carthy K. Adolescent breast masses. AM. J. Surg 1977, 134-275-7.
- 3. Daneil WA. Jr, Mathews MD., tumors of the breast in adolescent females. Pediatries 1968 41-743.
- 4. Turby WJ, Buntain WL, Dudgeon DL. the surgical management of Pediatric breast masses. Pediatric 1975 56.736.
- 5. Gupta D. changes in the gonadal and adrenal stroid patterns during puberty. clin Endocrional Metab 1975 4., 27.
- 6. Teasdalec, Baum M. Breast cancer in a school age. Lancet 1976, 2-627.

- 7. Hartman AW Magrish P. Carcinoma of breast in children, case reposrt, six year old boy with adenocarcinoma. Ann surg 1955. 141-792.
- 8. Changal G Ruji. Breast masses in adolescent patients in Trinadall AM. J. of surgery 1985. 149-219-220.
- 9. Norris HJ, Taylar HB: Relationship of histologic features to behaviar of cystesarcoma phyllodes, Analysis of ninety-four cases, cancer 20: 2090-2099, 1967.