

Tumours Of The Hand

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KEY WORDS

Giant cell, implant dermoid.

ABSTRACT

Ten cases, treated over 4 years period are subject of this study. Of these, four cases are of implantation dermoid, three of giant cell tumour of tendon sheath, two of ganglia and one neurofibroma. Observations of the study are discussed.

INTRODUCTION

Tumours of the hand can present in a variety of way and often pose a problem in diagnosis and management.

MATERIAL AND METHODS

The study includes 10 patients which attended the Department of Plastic Surgery, S.S.G. Hospital and Medical College, Baroda. In 4 years duration. All patients were evaluated clinically. Radiological examination was carried out wherever needed.

All patients were subjected to surgical removal of the swelling under local or regional anaesthesia and under tourniquet control. All tumours were subjected to histopathological examination after removal.

Each of the patients were followed up for a period varying from one month to two years.

OBSERVATIONS

In total of 10 patients, following table 1, gives details of age, site of tumour and Histopathology.

TABLE I : OBSERVATIONS

Case No.	Age (Years)	Site of tumour	H.P. Examination Report
01.	35	Rt. index finger distal phalanx.	Implantation dermoid
02	20	Rt. thumb proximal phalanx.	Giant cell tumour of tendon sheath.
03	35	Lt. ring finger middle phalanx.	Implantation dermoid
04	31	Volar aspect of wrist right.	Ganglion
05	25	Volar aspect of wrist left	Ganglion
06	28	Proximal phalanx of middle finger Rt.	Giant cell tumour of tendon sheath.
07	6	-do-	-do-
08	28	Rt. little finger distal phalanx.	Implantation dermoid
09	40	Rt. middle finger middle phalanx.	Implantation dermoid.
10	70	Lt. little finger proximal phalanx.	Neurofibroma.

Of the 4 patients with implantation dermoid, 2 gave definite history of trauma. Average duration of tumour was around 8 months. The fingers of the right hand were involved in 3 patients and left hand in 1 patient.

Among the patients with giant cell tumour of the tendon sheath, one was female and 2 were males. The later included a child of 6 years.

The neurofibroma was found in a female of 70 years. The tumour was present for 20 years.

DISCUSSION :

Frequency of various tumours in our series is compared with other observes. There appears to be a striking difference in the frequency of tumours between our series and series reported by various other authors.

TABLE : 2

Type of tumour	et al	Butler (1960) (437)*	Posch (1975) (1499)*	Stark series (1960) (300)*	Preent (10)*
Implantation dermoid		8.4 %	4.6 %	9.6 %	40.0 %
Giant cell tumour of tendon sheath		7.3 %	13.0 %	3.3 %	30.0 %
Ganglion		33.0 %	53.0 %	61.1 %	20.0 %
Neurofibroma		0.91 %	N M	1.0 %	10.0 %

*Indicates number of cases studied.

NM = Not mentioned.

Woods et al (1970) in their study of 44 cases of hand tumour in children over a period of 30 years have not reported a single case of Giant cell tumour. Surprisingly in present series there is one case of giant cell tumour in a child of 6 years of age, out of 10 cases studied.

Ganglion is found to be the commonest tumour of the hand. In present series, two were found to be present. Campanacci and Lans (1977) found the mucous cyst - ganglion of the DIP joint - in 70 % of cases.

CONCLUSION :

Comparative statistical data cannot be presented since this study is of small number of cases.

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