

# HYDATID DISEASE AT JINNAH POSTGRADUATE MEDICAL CENTRE KARACHI

Pages with reference to book, From 320 To 321

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## INTRODUCTION

Except for case reports,<sup>1,2</sup> no data on the frequency of Echinococcus infestation is available in Pakistan. In this article the frequency of Echinococcus infestation in surgical specimens received over 27 years is being presented.

## MATERIAL AND METHODS

The records of the Department of Pathology, Jinnah Postgraduate Medical Centre, Karachi from 1961 to 1988 were searched for cases of Echinococcus infestation. During this period, of the 141,967 cases examined, 172 (0.1%) were diagnosed as Echinococcus infestation.

## OBSERVATIONS

The distribution of the cases according to age, sex and different sites are shown in Tables I and II respectively,

**TABLE I. Distribution of cases (172) according to Age and Sex.**

Age Groups (Years)	Male	Female	Total
0-14	23	17	40
15-40	43	60	103
41-60	11	7	18
61 and above	1	3	4
Age not recorded	1	4	5
Age and Sex not recorded	—	—	2
Total	79	91	172

**M : F = 1.0 : 1.2**

**TABLE II. Pattern (Organ Distribution) of Hydatid Disease in the Present Series.**

Organ distribution	Numbers	%
Liver	69	40.0
Lungs	46	27.5
Brain	6	3.5
Abdominal Cavity	5	3.0
Thoracic Cavity	4	2.5
Abdominal Wall	3	2.0
Neck	3	2.0
Bone (unspecified)	3	2.0
Back (soft tissue)	2	1.0
Orbits	2	1.0
Kidneys	2	1.0
Thoracic Wall	2	1.0
Soft tissue (unspecified)	2	1.0
Vertebral Column	2	1.0
Liver and Ovaries	1	0.5
Spinal Cord	1	0.5
Cranial Cavity	1	0.5
Hip	1	0.5
Breasts	1	0.5
Heart	1	0.5
Spleen	1	0.5
Bile Duct	1	0.5
Pleura	1	0.5
Uterus and Ovaries	1	0.5
Omentum	1	0.5
Sites not specified	10	6.0
<b>Total</b>	<b>172</b>	<b>100.0</b>

a comparison with some other published series<sup>3,4</sup> in Table III.

**TABLE III. Hydatid Disease: Various sites involved in different series.**

Organ Distribution	Jidedjian	Bickers	Present Series
	(1953) 190 cases %	(1970) 532 cases %	(1988) 172 cases %
Liver	56.0	56.0	56.0
Lungs	30.0	21.0	27.5
Brain	—	1.3	3.5
Abdominal cavity	—	4.0	3.0
Thoracic cavity	0.5	—	2.5
Abdominal wall	2.0	—	2.0
Neck	—	—	2.0
Bone (unspecified)	—	0.8	2.0
Back (soft tissue)	—	—	1.0
Orbits	2.0	0.4	1.0
Kidneys	4.0	3.2	1.0
Thoracic wall	—	0.2	1.0
Soft tissue (unspecified)	—	0.2	1.0
Vertebral column	—	—	1.0
Liver and Ovaries	—	—	1.0
Spinal cord	—	—	0.6
Cranial cavity	—	—	0.6
Hip	—	—	0.6
Breasts	—	—	0.6
Heart	—	0.2	0.6
Spleen	4.0	4.3	0.6
Bile duct	—	0.6	0.6
Pleura	—	—	0.6
Uterus and Ovaries	—	1.1	0.6
Omentum	1.5	5.4	0.6
Thyroid	—	0.2	—
Thigh	—	0.4	—
Stomach	—	0.4	—
Parotid	—	0.2	—
Sites unspecified	—	—	6.0

Liver and the lung account for a majority of the cases in all the three series. However, nearly every organ of the body can be the site of infestation. Moreover, involvement of certain sites like neck, Vertebral Column, Ovaries, Spinal Cord, Cranial Cavity, Hip, Breasts and Pleura have not been reported in other series.

## REFERENCES

1. Kazi,J.I., Khan, A. and Raza-ur-Rahman, S. Hydatid cyst of breast; a rarity. JPMA., 1987; 37: 330.
2. Zafar, A. and Latif, S. Hydatid cyst in the groin-a case report. JPMA., 1988; 38: 245.
3. Jidedjian, Y. Hydatid disease. Surgery, 1953; 34: 155.
4. Bickers, W.M. Hydatid disease of the female pelvis. Am. J. Obstet. Gynaecol., 1970; 107: 477.