# LEIOMYOMA OF OVARY

# (A Case Report)

#### by

# K. PADMA R. RAO,\* M.D.

Doran in 1888 documented the first case and 28 cases have so far been reported. This paper presents 1 more case diagnosed preoperatively as fibroma of ovary but later by histological scrutiny corrected as 'Ovarian Leiomyoma'.

# **Case Report**

On 1-11-1975 a 50 year old woman para 1, sought admission for an abdominal mass of 2 months duration. At operation on 11-11-1975 the mass was confined to right ovary. The uterus and left ovary being normal. Abdominal pan hysterectomy was done. The patient had a smooth postoperative recovery and was discharged on 20-11-1975.

## **Pathological** observations

#### Gross appearance

The whole tumour was solid, smooth with regular margins measuring  $12.5 \text{ cms } \times 10 \text{ cms}$ . weighing 4.5 Kgs.

#### **Cut** sections

The whole mass was homogeneous with a definite outer rind of cortical tissue The colour was a reddish hue and there was a central bulge with a multicentric whorled appearance.

## **Microscoping** appearance

Multiple sections were serially studied. The dominent feature was the bipolar muscle cells with their myogenic cytoplasm interlacing with the smooth muscle. Even by routine haematoxylin and eosin staining the distinction between this and 'Look alike' fibroma was obvious Al-

\*Professor of Obstetric & Gynaecology, Karnatak Medical College, Hubli. Accepted for publication on 29-11-1977. though there was hyalinisation, haemorrhage and calcification the tendency for typical fascicular pattern formation was maintained. Fig. 1 show spindle cells arranged in parallel bundles and in whorls with areas of hyalinisation—all features in favour of Leiomyoma.

## Comments

Leiomyoma of ovary is very rare. The incidence being 1 in 7,780 (Fino and Warren). No particular age, parity, or symptoms of significance was noted in these cases. Most patients sought medical aid for either the abdominal mass or for complication such as haemorrhage, hyalinisation or calcification (Welmann). It is interesting to mention that all 28 cases reported so far were also pre-operatively diagnosed as benign solid fibroma of ovary and only on microscopic appearance distinguished as lejomyoma.

Various theories have been postulated for the occurrence of leiomyoma of ovary, the most popular being that the cells originate from the walls of the blood vessels in the ovarian hilus. Since, there is co-existing uterine leiomyoma in most cases, a common hormone stimulus also may be thought of. In contrast, the origin may be from areas of ovarian Endometriosis, but such cases associated with endometriosis are rare.

#### Summary

An interesting single case of ovarian leiomyoma is briefly presented stressing on histopathological features as it is only

## LEIOMYOMA OF OVARY

a pathological entity and as such a clinical rarity.

## Acknowledgements

Thanks are due to Dr. J. P. Goravalingappa, M.D., Professor of Pathology, and Superintendent, K.M.C. Hospital, Hubli for the expert pathological interpretation and also to Dr. S. N. Kaulgud, M.D., D.G.O. Professor and Head of the Dept. of Obst. & Gynaec. for permission to report the case, and Dr. S. R. Hiremath, M.D., for detailing the case report.

## References

- 1. 'Doran, A.: Trams. Obs. Soc. Lond. 30: 410, 1888 cited by Fallahzadeh.
- Fallahzadeh, H., Dockarty, M. B. and Lee, R. A.: Am. J. Obstet. Gynec. 113: 395, 1972.
- Fino, J. A. and Warren, F. A.: Am. J. Obstet. Gynec. 56: 806, 1948.
- Wellmann, K. J.: J. Can. Med. Assoc. J. 85: 429, 1961 cited by Fallahzadeh.

## See Fig. on Art Paper VIII

The term principlications was coined by Beally (1953) to a luminous muchle of revers reported to have association with evers reported to have association with dynaminimes. It is only in 1930 that we also a state of the second of the trans of this conduction with dynamtrans of this conduction with dynamtrans of this conduction with transtrans of this conduction, and a rate transformer are cell to and a rate transformer are cell to a second an and descent territors from anter and muchter territors of the conduction of the descent territors of the second the product descent territors and the second the second result descents and the production is not descent and but as applied the second territors descent and but as applied to a set a single of the bound of the second the second territors descent and but as applied to a set descent territors and the production is not descent and but as applied to a set descent territors and the second the second territors descent territors and the production is not descent territors and the production is not descent territors and the production is not descent territors and the second the second territors and descent territors and the second the second territors and descent territors and the second territors and the second territors and descent territors and the second territors and territors and descent territors and the second territors and territors and descent territors and the second territors and territors and descent territors and the second territors and territors and descent territors and the second territors and territors and descent territors and the second territors and territors and descent territors and territors and

#### Casa Equat

on Berlinshe any slamp) minili his among the sta

Prodi y specification

- the bound of the bound of
- and the country in Charles, & Char
  - And a subscription of the second

and Empiricipants S.M. Medical College, Acre.

are for has one year and a large is the herabbar on firm monordes at in stand, do in abbar orders till dereingenet of traphone the abba reduced a result trap in left trans obtains abbar of the monoraria teregolardly. The more year months agod breases in size but for the her months agod breases in size was moted. The months agod breases in the was moted to months agod breases in the termination months agod breases in the was moted to months agod breases in the termination months agod breases in the termination to measure are at some the termination the mote former one them file terminated and the former one dest. The correct

Annual solid cover particip estimated variation before the rate cost the element to the left determine this status. There are no free this in the performant entity are any evidence of the first part of parts of Datalos or section to the performance the parts of Datalos or section. Left all time endowerther were then been been all and the parts of the second ball.

barbon were present in the operative and so your

# To a 12 x 10 cals at

to y 12 Y is one and weighed and gang is was medimediale, provide white and solid in one in discover. The modules measured 1 is 35 one in discover. He modules fuel a variagener discover bound overhers into a variation of the mo223