

: 1 1

가 .

1

. Talerman 1993 40  
(1).

(Fig. 1). CT . MR T1  
(TR=450 msec, TE=14 msec)

2 (2, 3).

(Fig.

2A), T2 (TR=2000 msec, TE=80 msec)  
(Fig. 2B).

가 . 가 ,

T1 T2

(Fig. 2C).

T1

22 가  
(pelvic exami-  
nation)  
가 . ,

. T1  
T2

(tumor marker) CEA (carci-  
noembryonic antigen) 1.59 ng/ml( 0 - 4.5ng/ml), CA  
19 - 9 33.44 U/ml( 2.4 - 36.3 U/ml)

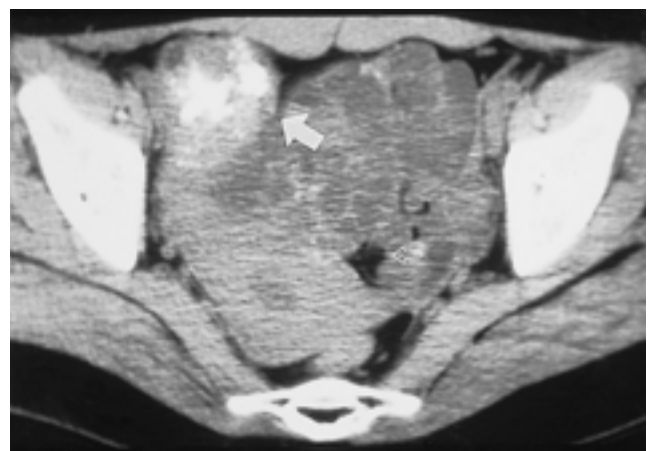
5 × 3.5 cm

(amorphous)  
가 .

가

CT

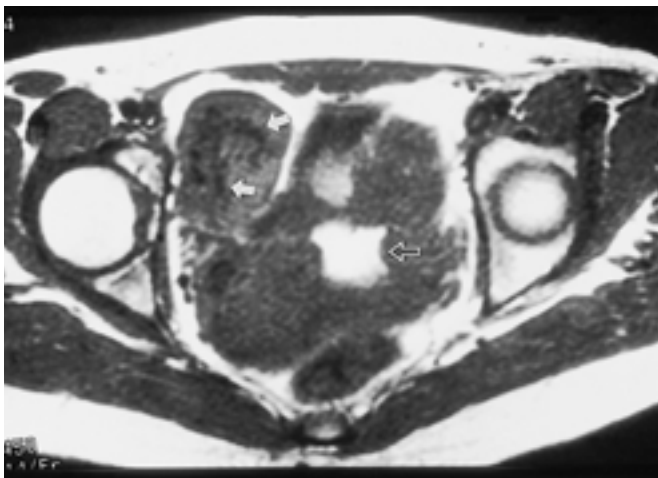
가 가 .



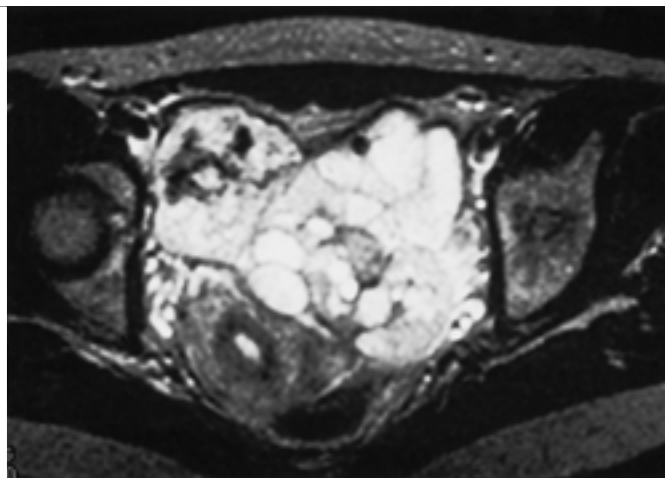
**Fig. 1.** On precontrast CT, the right lesion shows multinodular calcific densities centrally within soft tissue mass (large arrow). The left lesion shows a multilocular cystic mass with peripheral fat density (open arrow).

2000 2 22 2000 9 29

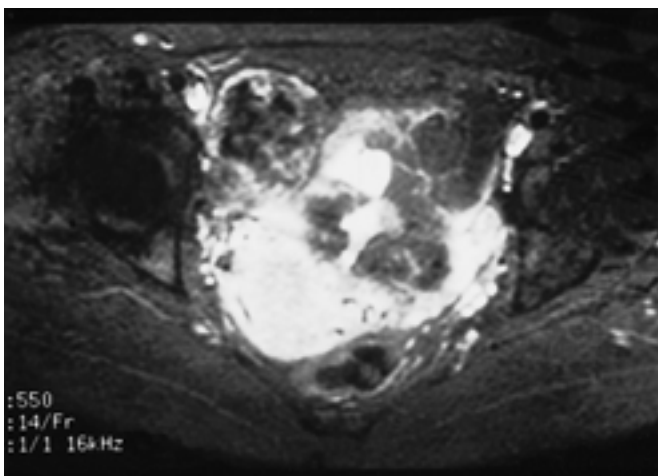
가 , T1  
(Fig. 2).  
가 가  
5.5 × 4.5 cm  
(generalized hemangiomatosis) (4).  
1.5 cm  
가  
(Fig. 3).  
(endothelial cell)  
(hyalinization)  
(Fig. 4). 11.5 × 10 cm 가  
(1).  
(2, 5, 6). (stro-  
mal luteinization) 가  
(3). 가



A

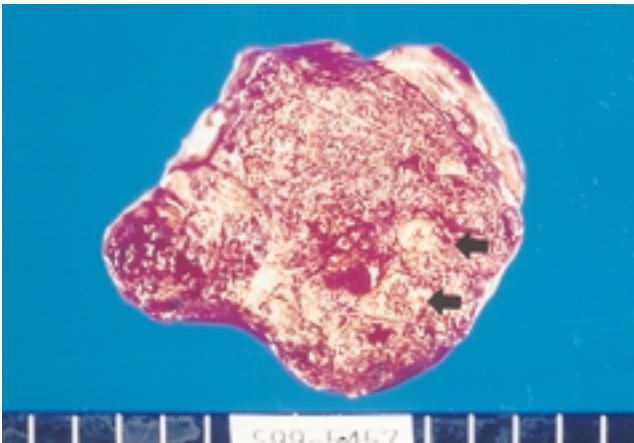


B

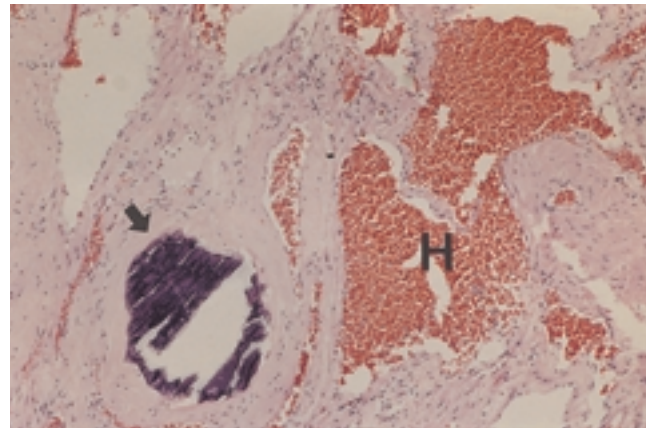


C

**Fig. 2.** MR findings of cavernous hemangioma  
**A.** On T1 weighted image, the right lesion shows peripheral intermediate signal intensity and central low signal intensities(white arrows) and the left lesion shows variable signal intensities including high signal suggesting fat(open arrow).  
**B.** On T2 weighted image, the right lesion shows persistent central low signal intensity suggesting calcification and the left mass shows variable signal intensities.  
**C.** The right lesion shows subtle enhancement in peripheral portion only and the left lesion shows heterogeneous septal enhancement on fat suppressed enhancement scan.



**Fig. 3.** Cut section of cavernous hemangioma specimen shows red tan colored spongy-like feature containing blood and multifocal calcifications(black arrows).



**Fig. 4.** The tumor is composed of many dilated, vascular spaces lined by a single layer of endothelial cells(H). Dense calcifications(black arrow) are noted only in hyalinized stroma(hematoxylin and eosin stain,  $\times 100$ ).

가  
(2, 3).  
CT  
가 (3). CT  
가  
가 (ossifica -  
tion) 가  
(fibroma), (thecoma), (dysger -  
minoma), (cystadenocarcinoma)  
calcification), (psammomatous calcification),  
(osteosarcoma),  
T1 MR  
(3),  
가  
가 (9,  
10)  
(10),

가  
(frozen section) (endometriosis)  
(2),  
가  
가  
가  
bolith) 가 (49%), (laminated)  
(metaplastic ossification)  
가  
(7).  
가  
가

1. Talerman A. Nonspecific tumors of the ovary, including mesenchymal tumors and malignant lymphoma. In: Kurman RJ, ed. *Blauenstein's Pathology of the Female Genital Tract*. New York: Springer-Verlag. 1993;886-893
2. Cormio G, Loverro G, Iacobellis M, Mei L, Selvaggi L.

- Hemangioma of the ovary: A case report. *J Reprod Med* 1998;43:459-461
3. Yamawaki T, Hirai Y, Takeshima N, Hasumi K. Ovarian hemangioma associated with concomitant stromal luteinization and ascites. *Gynecol Oncol* 1996;61:438-441
  4. Lawhead RA, Copeland LJ, Edwards CL. Bilateral ovarian hemangiomas associated with diffuse abdominopelvic hemangiomatosis. *Obstet Gynecol* 1985;65:597-599
  5. Gunes HA, Egilmez R, Mulger M. Ovarian hemangioma. *Br J Clin Pract* 1990;44:734-735
  6. Schaeffer MH, Cancelmo JJ. Cavernous hemangioma of ovary in a girl twelve years of age. *Am J Obstet Gynecol* 1939;38:722-723
  7. Wang YC, Jeng CM, Wu DY, Chang CY, Resnick D. Giant ossified cavernous hemangioma of an extremity associated with an equinovarus deformity. *Skeletal Radiol* 1998;27:522-524
  8. Alvarez M, Cerezo L. Ovarian cavernous hemangioma. *Acta Pathol Lab Med* 1986;110:77-78
  9. Ros PR, Moser RP, Dachman AH, Murari PJ, Olmsted WW. Hemangioma of the spleen: Radiologic-Pathologic correlation in ten cases. *Radiology* 1987;162:73-77
  10. , , , . 1995;30(6):554-556

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## Calcified Cavernous Hemangioma of the Ovary: A Case Report<sup>1</sup>

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Ovarian hemangiomas are very uncommon and most are of the cavernous type. A few reports have described the radiologic findings of this neoplasm, but as far as the author is aware, the literature contains no description of calcified cavernous hemangioma. A case in which this condition involved the ovary is now reported.

**Index words :** Ovary, neoplasm

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