

1 . 1 . 1 . 2 . 2 . 3 . 4 . 5

2-3      5- 15%      . 24      가 6-7

가      T1      1.5×5×9 cm      가

(biphasic)

(1).      10%

(1).      24      가 6-7

(2-9)      2-3

가      5 cm 가      X

(3).      가      6cm 가      , bone scan

가      가      (Fig. 1)      (Tc- 99m HDP)

가      5- 15%      가      1.5T MR scanner(Signa 1.5T GE, Milwaukee, WI, U.S.A.)      T1      T2      ,

(3, 6, 10).      가      T2      T1

(11- 13).      T1      1.5×5×9 cm      가

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1  
2  
3  
4  
5

: 2006 4 15 , : 2006 5 19  
: , (400-711) 37가 7-206,  
Tel. (032) 890-2771 Fax. (032) 890-2743 E-mail: swpark88@inha.ac.kr

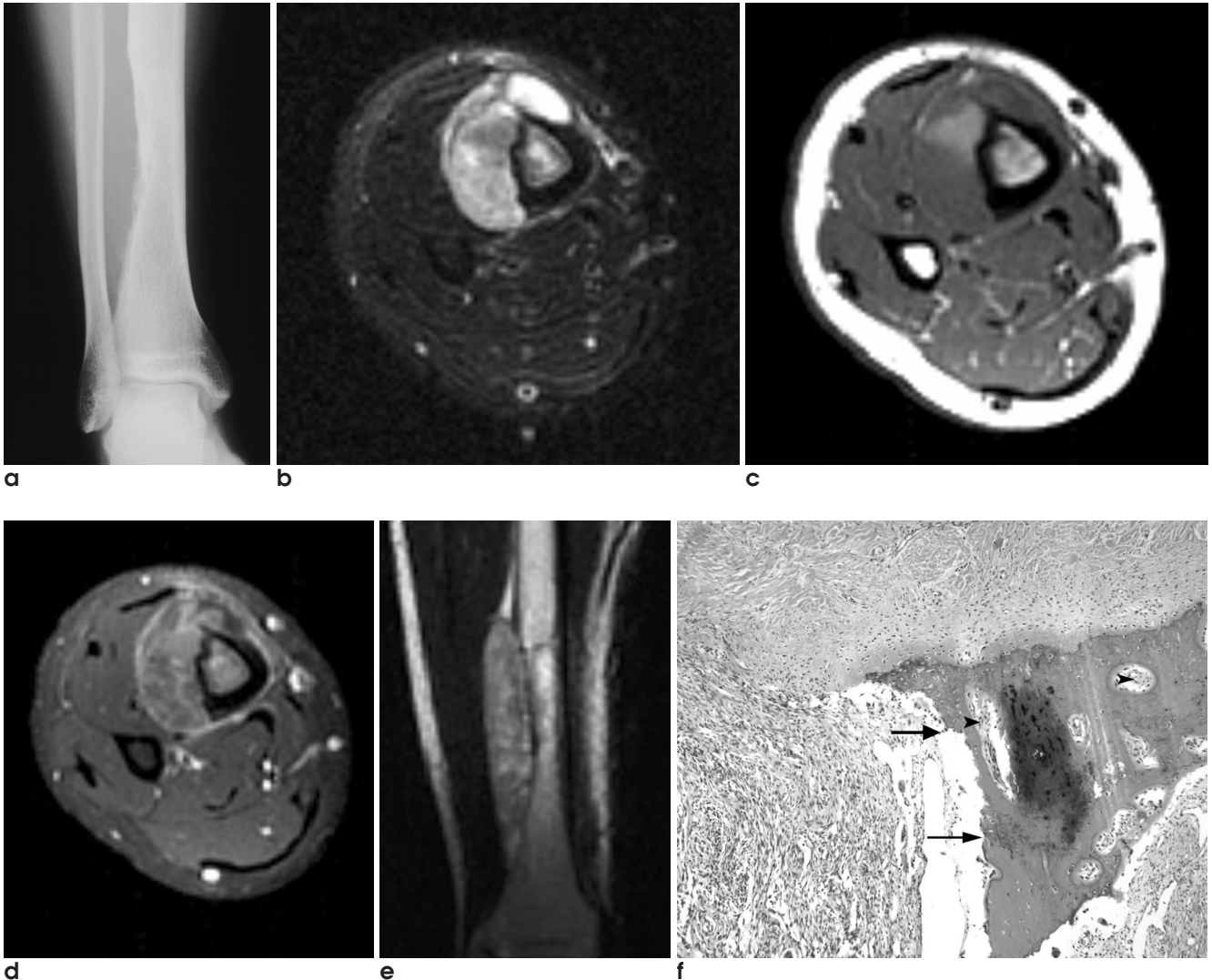
T2  
(Fig. 1).

T1

가  
가

가

9×1.5×5 cm  
가



**Fig. 1.** Synovial sarcoma in distal lower leg in 24 year old man.

**a.** Plain X-ray shows soft tissue bulging mass in distal lower leg with adjacent tibial erosion.

**b.** Fat suppressed T2 weighted axial MR image shows heterogeneous high signal intensity mass in juxtacortical area of tibia. Cortical erosion of tibia and bone marrow increase signal intensity is noted.

**c.** T1 weighted axial MR image shows heterogeneous high and iso signal intensity mass with cortical erosion and bone marrow low signal intensity of tibia. There is high signal intensity area in the mass suggesting hemorrhage.

**d.** The mass and bone marrow is moderately enhanced on post-contrast fat suppressed T1 weighted image.

**e.** The mass is relatively well demarcated elongated ovoid shape on the coronal T2 weighted image.

**f.** Pathologic specimen shows cortical destruction (arrows) with intraosseous tumor involvement (arrowheads).

(biphasic) 5% (1).

3 가 가

(13, 17, 18).

가 (1). (7 - 9, 12, 13, 19). Jones 44%

5 - 10% T1, T2

2/3 가 35% T2

. Blacksin 5 cm

가 T1 T2

(1, 6, 11, 14). 10 cm (4).

12% (8, 13) 가

, 70%가 20, 30, 40 (6, 7, 12) 가

(1). 가 15 25%

가 (4, 6, 7, 12, 13)

, 가 . Jones 50%가

(11, 15). , 21%

12 - 23%, 10 - 20%, 74 - (6).

81% 가 가 (7, 11, 16). 30%

30 - 70% 2

, 가 가 CT

, 가 가 (12).

5 40 - 50%, 10 10%

(7, 11, 16).

가

(1).

. Cadman 1.5 cm 8 cm (1).

(epithelioid) (spindle cell)가

가 (biphasic) 가

(monophasic) 가

(11).

30% 10%

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## **MR Findings of Synovial Sarcoma with Intraosseous Involvement : Case Report**

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Synovial sarcoma is rare soft tissue tumor mesenchymal origin. Osseous involvement of synovial sarcoma is rare. A 24-year-old man presented with pain and swelling of the lower extremity. MRI of the lower extremity demonstrated a large mass encircling tibia with osseous involvement. Surgical excision of the mass was done and the mass was diagnosed as biphasic synovial sarcoma with bone marrow involvement. We also discuss the other imaging findings of synovial sarcoma on MRI.

**Index words :** Extremities, MRI

Soft tissue, tibia, sarcoma, synovial sarcoma

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