

- Abstract -

Extraosseous Epidural Ewing's Sarcoma Arising in the Lumbar Area
- A Case Report-

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Ewing's sarcoma is an uncommon malignant neoplasm of the long bone and it has a poor prognosis due to its early metastasis and aggressive local spread. It is mostly found before the age of 30 and it is rare in extraskeletal sites. Extraskeletal Ewing's sarcoma has been reported to occur in various sites including the larynx, scalp, nasal fossa, neck, chest wall, lung, pelvis, perineum, arm, finger, leg and toe, but it is extremely rare as a primary epidural tumor of the spine. We experienced a case of extraosseous epidural Ewing's sarcoma arising in the lumbar spinal canal at L3-L5 level in a 9-year-old boy. Following total laminectomy from L3 to L5 with a lumbar vertebrae and mass excision, he received chemotherapy with complete remission.

Key Words : Extraskeletal Ewing's sarcoma, Epidural, Chemotherapy

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가 (Fig. 3). periodic acid Schiff(PAS)

3 , 4

(Fig. 4A),

reticulin

(Fig. 4B).

synaptophysin

(Fig.

1), 3 , 4 , 5

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CCSG(Childrens Cancer Study

(dural sac)

Group) VAC(Vincristine,

Adriamycin, Cyclophosphamide), Ifosfamide,

(Fig. 2A, Etoposide

Fig. 2B). 3

2 (1)

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2

(Fig. 5).

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1 10

(Fig. 6A, Fig. 6B).



Fig. 1. Simple L-spine AP and lateral x-ray view represent nonspecific finding.

1921

Angervall Enzinger



Fig. 2-A. L-spine MRI: T1 weighted image shows epidural mass (L3-5) of low signal density.
 B. L-spine MRI: T1 weighted enhance image shows well enhanced mass.

39

3,11)

Gullian-Barre (tethered cord syndrome), (transverse myelitis), (apoplexy of spinal cord)

39 가 3

9)

(small round cell)

(neurenteric cysts),

가

reticulin

. Homer-Wright rosette

7,12)

가 c-myc 가
80- (primitive
90% 11;22 (t(11;22)(q24;q12)) neuroectodermal tumor)

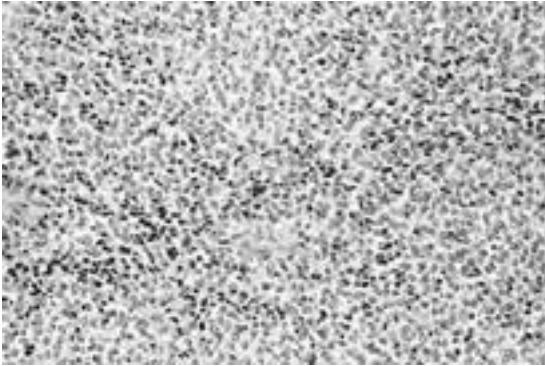


Fig. 3. The tumor consists of solidly packed, small round cells with monotonous, rounded or ovoid vesicular nuclei and indistinct, pale-staining cytoplasm. The tumor is interspersed with thin walled vessels (H&E, × 100).

5).
- synaptophysin, neuron specific enolase, Leu-7, S-100 protein, protein gene product 9.5(PGP 9.5), cytokeratin

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10).
synaptophysin 가
HBA-71
MIC2
MIC2 가 11;22

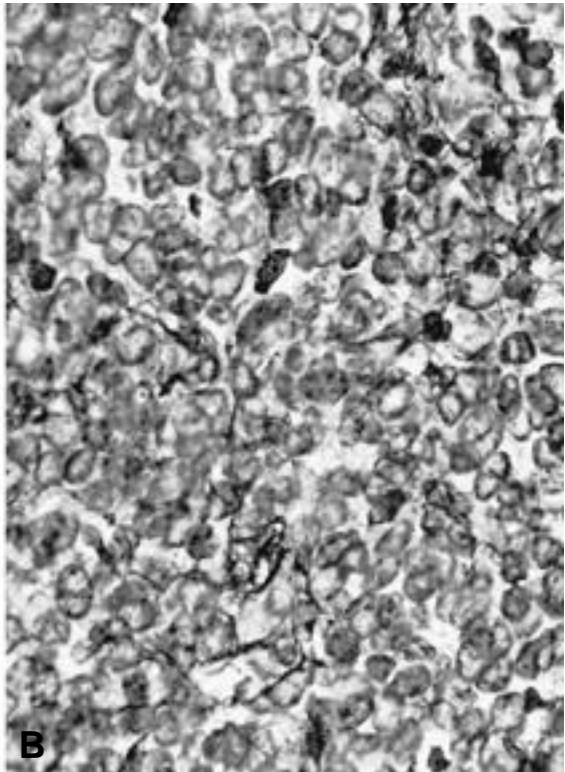
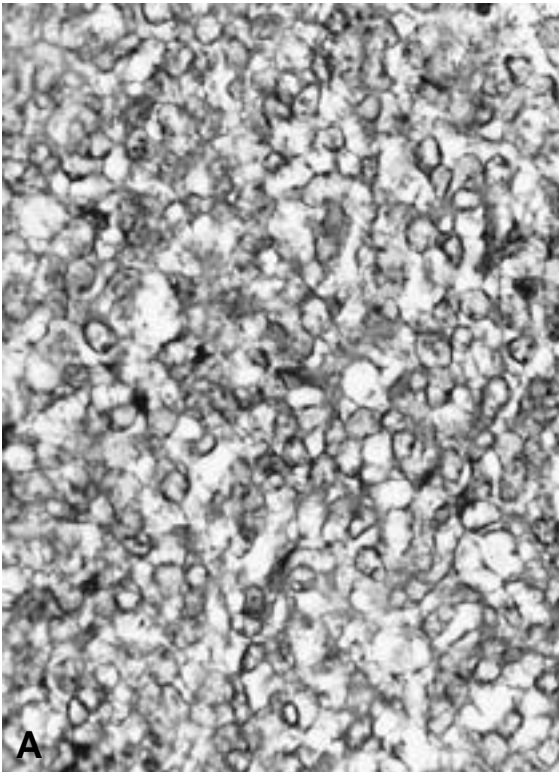


Fig. 4-A. The tumor cells have glycogen granules (PAS, × 400).

B. Reticulin stain shows scanty amount or absence of reticulin fibers between the tumor cells (Reticulin, × 400).



Fig. 5. No distant metastatic lesions are shown on ^{99m}Tc whole body bone scan.

HBA-71 11;22
 2,4)
 30
 , 30
 8)
 11;22
 가
 가 10,14)
 neuron specific
 enolase, neurofilament, PGP9.5 ,
 muscle specific actin, desmin ,
 leuckocyte common antigen ,
 cytokeratin
 가 4,6)
 가

. Kasper 9) 7 1

46Gy가

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13)

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Fig. 6-A. Follow-up L-spine MRI: There is no epidural mass previously visible on T1 weighted image.
B. Follow-up L-spine MRI: There is no epidural mass previously visible on T1 weighted enhance image.

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