



1 3 27 가

3 가

(lipoblastoma) (embryonal) (Fig. 1).

3

(1). 70%가 18%가

, 가 (2, 3).

, 6 가 (1, 4, 5, 6).

(computed tomography, CT)

(5, 7).

1 27

1

CT 14×11×9

cm 가

CT - 57 HU (Hounsfield unit)

(Fig. 2A).

5% CT

가

27 가 2

(wheezing sound)

(alpha - fetoprotein),

(carcinoembryonic antigen),

(human chorionic gonadotropin)

가 가

가



Fig. 1. Antero-posterior chest radiograph shows a huge lobulating soft tissue mass displacing the mediastinal structure in right lung field.

1
2

가

(Fig. 3B).

(Fig. 2B).

1926 Jaffe

가

70%

18%

가

(2, 3).

1.5 - 3

(1, 8).

가 1

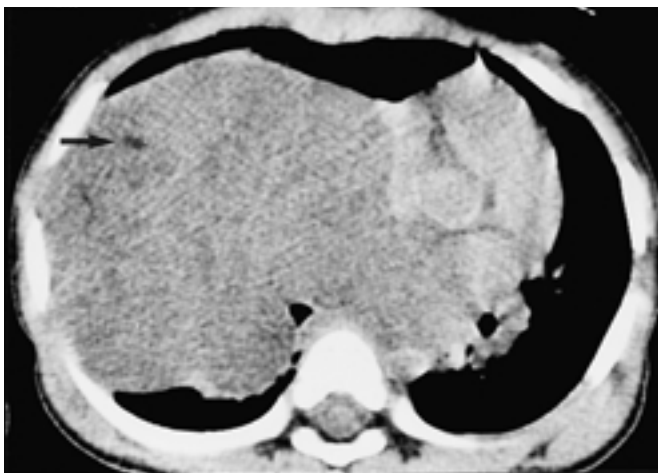
(Fig. 3A).

90%

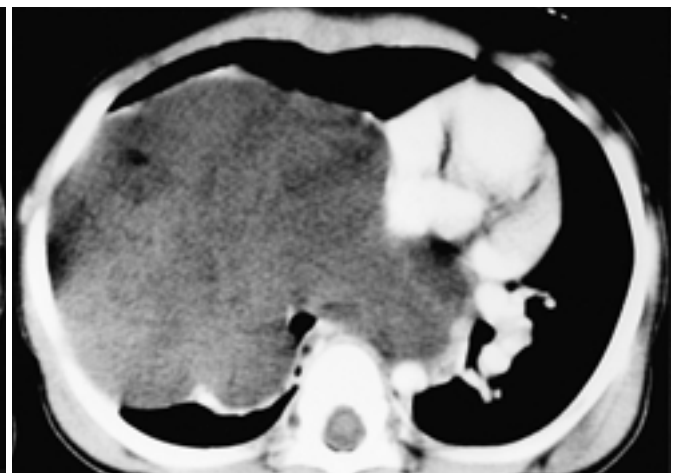
3

, 8

(1).



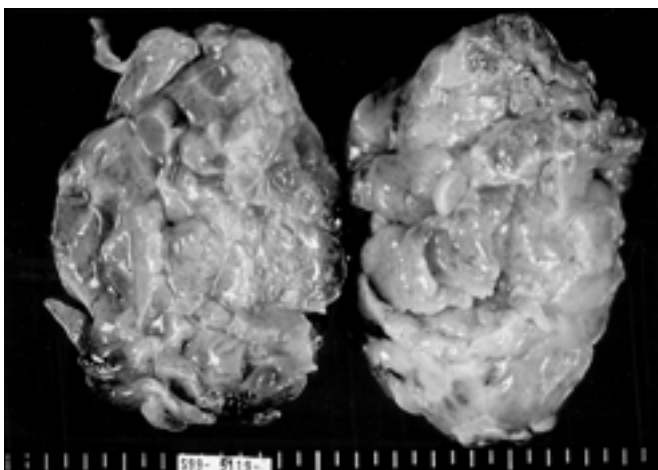
A



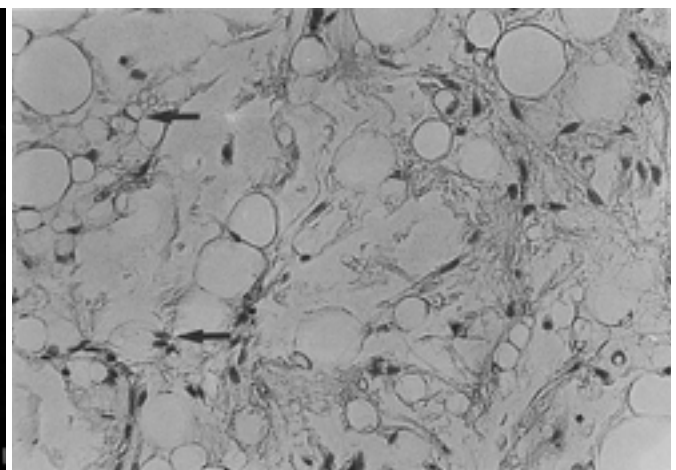
B

Fig. 2. A. Precontrast CT scan of the chest shows a huge soft tissue mass mixed with fat component (arrow).

B. Contrast enhanced CT scan of the chest shows non-enhanced mass. This lobulating mass is invaginated into the adjacent mediastinal structures without invasion.



A



B

Fig. 3. A. Pathologic gross specimen of the tumor. Specimen consists of a well encapsulated lobular mass, 11 x 9 cm in size. The inner surface is white-yellow and friable.

B. Photograph of the specimen shows lipoblasts having small vacuoles (arrows) intermixing lipocytes having large vacuoles (Hematoxylin and Eosin. x 400)

- 가 가 , 가 ,
가
(lipoblastomatosis)
(8). 가 가
2 . (germ cell tumor)
가 가
3
(3). 가
.
.
.
가
(8).
가
(7). CT
(5).
(chondroid metaplasia),
(8).
CT
, MRI
(4, 7, 9). 가
, T1
T2
CT (10).
, , .
1. Stringel G, Shandling B, Mancier K, Ein SH. Lipoblastoma in infants and children. *J Pediatr Surg* 1982;17:277-280
 2. Mahour GH, Bryan BJ, Isaacs HJ. Lipoblastoma and lipoblastomatosis: a report of six cases. *Surgery* 1988;3:577-579
 3. Tabrisky J, Rowe JH, Christice SG, Weinstein ED, Asch M. Benign mediastinal lipoblastomatosis. *Pediatr Surg* 1974;9:399-401
 4. Chung EB, Enzinger FM. Benign lipoblastomatosis: an analysis of 35 cancers. *Cancer* 1973;32:482-492
 5. Prandob A, Wallace S, Marins LC Jr, Pereira RM, Oliveira ER, Alvarenga M. Sonographic feature of benign intraperitoneal lipomatous tumors in children: report of 8 cases. *Pediatr Radiol* 1990;20:571-574
 6. Broeders A, Smet M, Breysem L, Marchal G. Lipoblastoma: a rare mediastinal tumor in a child. *Pediatr Radiol* 2000;30:580
 7. Whyte A.M., Powell N. Case Report : Mediastinal lipoblastoma of infancy. *Clin Radiol* 1990;42:205-206
 8. Fisher MF, Fletcher BD, Dahms BB, Haller JO, Friedman AP. Abdominal lipoblastomatosis: radiographic, echographic, and computed tomographic finding. *Radiology* 1981;138:593-596
 9. Federici S, Cuoghi D, Sciutti R. Benign mediastinal lipoblastoma in a 14-month-old infant. *Pediatr Radiol* 1992;22:150-151
 10. Letourneau L, Dufour M, Deschenes J. Shoulder lipoblastoma: magnetic resonance imaging characteristics. *Can Assoc Radiol J* 1993;44:211-214

Mediastinal Lipoblastoma in a Child : A Case Report¹

Young-Seob Ahn, M.D., Jong-Chul Kim, M.D., Gyu-Sang Song, M.D.²

¹Department of Radiology, Chungnam National University College of Medicine

²Department of Pathology, Chungnam National University College of Medicine

Lipoblastoma is a benign tumor which frequently arises in the limbs but rarely in the mediastinum, and is common in children under the age of three years. We report a case of mediastinal lipoblastoma in a 27-month-old female child complaining of dyspnea. Plain radiography demonstrated a huge well-defined mass in the mediastinum, while CT scanning revealed a soft tissue mass with an internal hypodense portion. When radiographic images in children under the age of three reveal a soft tissue mass with a fat component in the mediastinum, especially where there is no calcification or a cystic component, lipoblastoma should be included in the differential diagnosis.

Index words : Children, neoplasms
Mediastinum, radiography
Mediastinum, CT

Address reprint requests to : Young Seob Ahn, M.D., Department of Diagnostic Radiology, Chungnam National University Hospital.
640, Daesa-dong, Jung-gu, Taejeon 301-040, Korea.
Tel. 82-42-220-7333 Fax. 82-42-253-0061 E-mail: greatree@cnuh.co.kr