

, (IV - S): 1

10% IV - S, 1

1 (1), 2002 (Fig. 1C) 5 mm 1 cm

97 가 (2), 10% (3). Stage IV - S 1 2 MR (Stage I, Stage IIA IIB), T1 (10% 가 T2 (Fig. 1D) 2 mm , T2 T1 IV - S Stage T1, T2 (Fig. 1D). Gd - T1 (Fig. 1E), 1 38 가 1 cm 5 cm 가 (Fig. 1A). (Fig. 1G), 가 (Fig. 1A). 4 - 5 mm (catecholamine) 2 (Fig. 1B). 가 , 가

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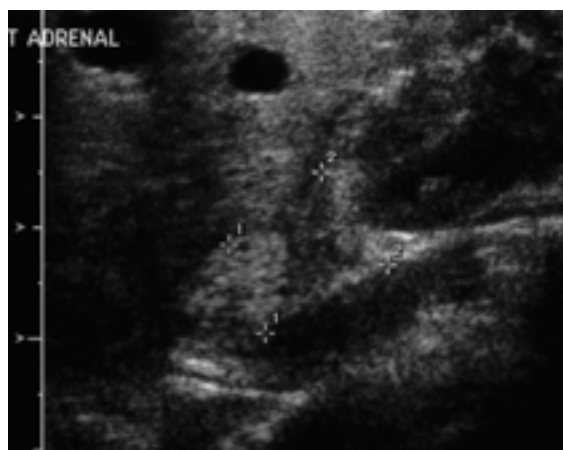
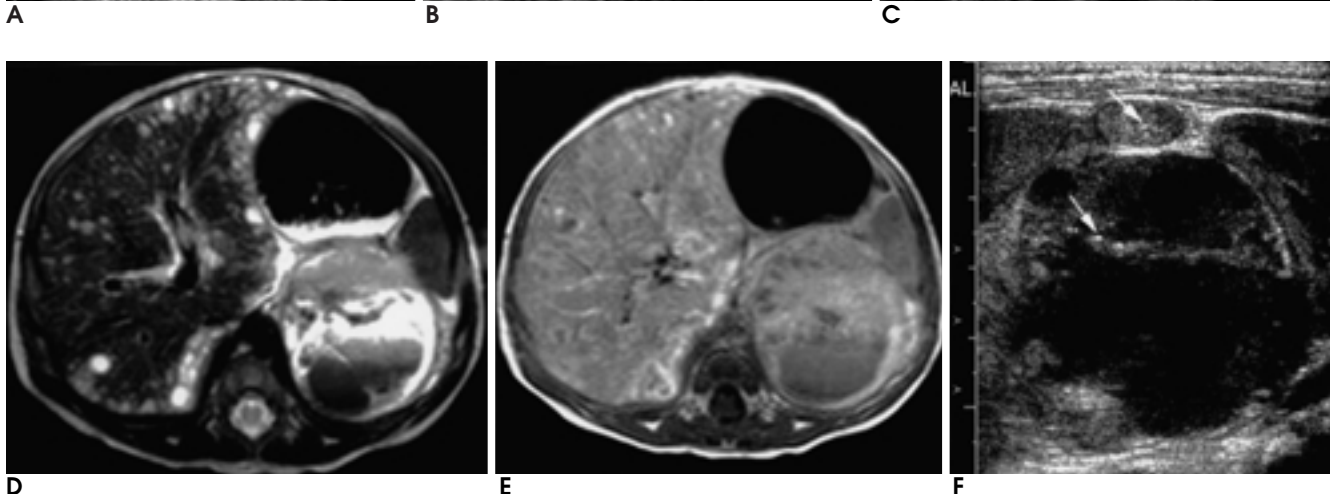
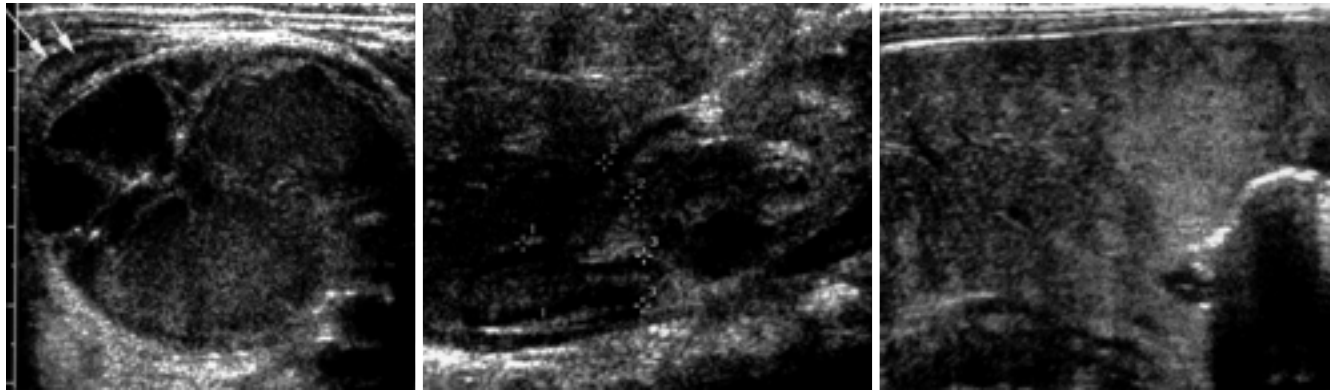


Fig. 1. A. Longitudinal US of the left upper abdomen reveals a well-defined, thick-walled, septated and complicated cystic mass in the suprarenal region. Note linear lateral limb of the left adrenal gland with normal cortex (long arrow) and medulla (short arrow) in the superior aspect of the mass.

B. Both medial and lateral limbs of the right adrenal gland are measured 4.8 mm in each thickness on longitudinal scan. Note preserved echogenic medulla and low echoic cortex.

C. US of the liver demonstrates multiple, ill-defined, hyperechoic lesions in both right and left lobes.

D. Axial T2-weighted image reveals numerous round high signal intensity nodules in the both lobes of the liver. The same natured small nodular lesions in the right adrenal gland with preservation of the outer contour. The left adrenal mass shows fluid-fluid levels with variable stages of internal hemorrhage.

E. Gd-enhanced axial T1-weighted image shows nodular and rim enhancing lesions in the liver and right adrenal gland. The left adrenal mass demonstrates thick, peripheral enhancement.

F. Follow-up longitudinal US examination after 2 weeks reveals a small nodular mass lesion with tiny internal calcification in the lateral limb of the left adrenal gland and in the septum of the tumor (arrows).

G. Follow-up longitudinal US of the right adrenal gland shows enlarged both medial and lateral limbs with obliteration of the corticomedullary differentiation.

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Congenital Bilateral Neuroblastoma (Stage IV-S): Case Report¹

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Congenital neonatal neuroblastoma is not uncommon but bilateral adrenal neuroblastoma is rare, accounting for about ten percent of neuroblastomas in children. We report the US and MR findings of a stage IV-S congenital bilateral neuroblastoma occurring in a one-day-old neonate.

Index words : Neuroblastoma

Adrenal gland, neoplasms

Liver neoplasms, in infants and children

Magnetic resonance (MR), in infants and children

Ultrasound (US), infants and children

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