

History:

ผู้ป่วยเด็กชายไทย อายุ 1 ปี มีก้อนในท้องมา 1 ปี

ประวัติปัจจุบัน: 1 yr PTA มาด้วยกล่องท้องเด็กเล็กๆ ไม่มีอาการใดๆ ไม่เคยหายไปครัวเรือน

4 wk PTA กินได้ดีอยู่แล้ว ลดลง 3 mm ใน 1 สัปดาห์ ไม่ปวดท้อง คลายก้อนได้รอดชั่วไป พร้อมออกน้ำ tiểu 1 wk PTA มาด้วยกล่องท้องโกรธขึ้น แห้งท้องมาก ไม่สามารถใช้ห้องน้ำได้

ประวัติทางครอบครัว: ไม่ระบุ

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Family history:

ลูกเป็นมะเร็งตับต่อๆ 另有家族史

Physical examination:

GA: A Thai boy, good consciousness, BW 16 kg Height 100 cm

V/S: normal

HEENT: no pallor, no icteric sclera

RS: normal breath sound

CVS: normal S1 S2, no murmur

Abdomen: soft, moderate distension, no tenderness, firm mass size 9x11 cm. at epigastrium area, slightly movable, no splenomegaly, liver just palpable, span 6 cm below RCM

Extremities: no pitting edema, no ecchymosis

Lymphnodes: no palpable LN

Neuro signs: grossly intact

Problem lists:

>>Abdominal mass at epigastria area

>>Weight loss

Approach to upper abdominal mass in children:

Stomach	Carcinoma, Leiomyosarcoma, Rhabdomyosarcoma, Myosarcoma
Small bowel	Fibrosarcoma

Omentum and mesentery	Lymphoma Cysts, Mesenteric fibromatosis, Inflammatory pseudotumor
Retropertitoneum	Liposarcoma, Leiomyosarcoma, Fibrosarcoma, Mesothelioma

Retropertitoneum	Metastatic tumor Wilms tumor, Neuroblastoma, Pancreatoblastoma, Lymphoma
Liver	Rhabdomyosarcoma, Ewing sarcoma, Germ cell neoplasm

Liver	Benign: Adenoma, Hamartoma, Focal nodular hyperplasia
	Malignant: Hepatoblastoma, HCC, Germ cell tumor, angiosarcoma, Intrahepatic mesenchymal tumor, Rhabdomyosarcoma

	Vascular: Hemangiopericytoma, Solitary cavernous hemangioma
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Basic investigations:

CBC: Hb 10.3 g/dl Hct 32%. WBC 7,260 cell/mm3, PMN 22% L 66% M 10% E 1%. Plt. 465,000 cell/mm3, MCV 70 fL, PTT 26.3 sec, PT 11.1 sec, INR 0.93 TT 10.0 sec

UA: pH 6.0, Pro. Negative, Glu. Negative, Bil. Negative, Uro. Negative, Leu. Negative

WBC 0 – 1, RBC Negative

Electrolytes: Na 136 mmol/L K 5.12 mmol/L Cl 102 mmol/L HCO3 22 mmol/L

BUN 15 mg/dl Cr 0.3 mg/dl

LFT: ALP 204 mmol/L AST 35 mmol/L ALT 41 mmol/L GGT 174 mmol/L ALB 37.4 g/L Tbil. 0.2 mg/dl, Dbil. 0.1 mg/dl

Hepatitis profiles: HBs Ag negative, Anti HBS positive, Anti HCV negative

AFP 2.34 ng/ml (0-7.02)

Beta-HCG < 1.2

LDH 215 U/L

Blood for NSE 80.36 ng/ml(0-15 ng/ml)

Bone marrow biopsy: smear, cytogenetic, pathology

Blood for N-myc amplification

Urine 24 hr for VMA, Cr All result: normal

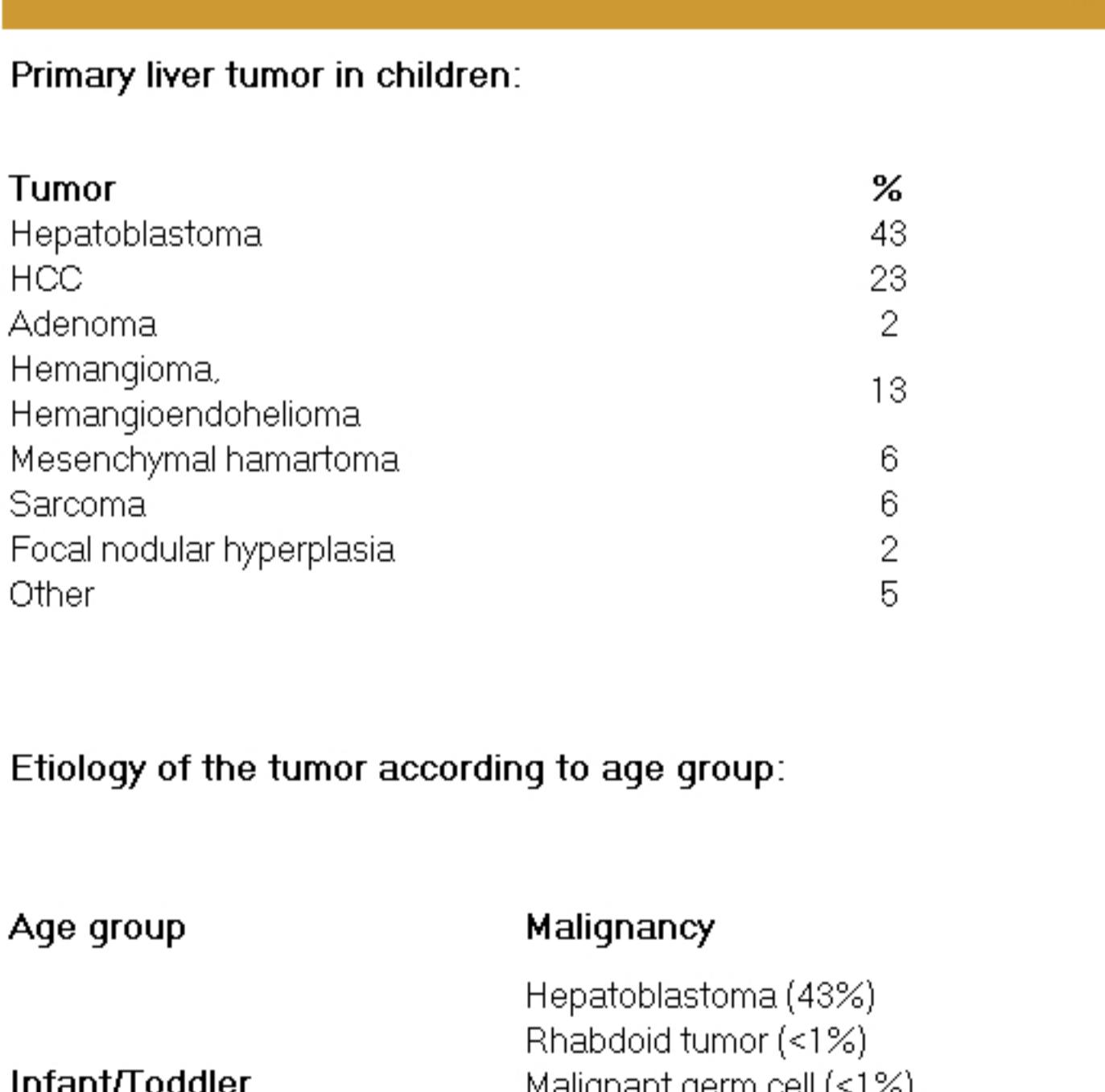
Ultrasound abdomen:

A Large homogenous hypoechoic mass at left lobe liver 5.7x8.3 cm. in diameters

The rest of liver parenchyma appear normal

Differential diagnosis of liver mass by ultrasound:**Hypoechoic mass**

Hepatic adenoma	Hepatic adenoma
Atypical Hemangioma	Hemangioma
Focal nodular hyperplasia	Focal nodular hyperplasia
Metastatic tumor	Metastatic tumor
Lymphoma	Lipoma/angiomylipoma
Hepatic infarction	Focal fatty change
HCC	Cholangiocarcinoma

Further investigations: CT abdomen:

CT non-contrast: Huge lobulated, exophytic heterogenous arterial enhancing isodense mass without internal calcification involving nearly entire Lt hepatic lobe about 6x8.6x7.2 cm. It contains ill-defined internal non-enhancing area suggestion necrosis/scar.

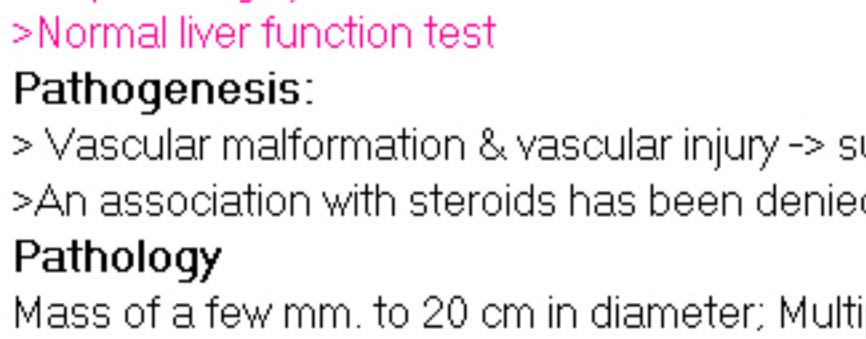
CT arterial and venous phase: Peripheral wedge-shaped hyperdensence lesion and turn to be isodense in portal phase. The mass is supplied by the left

Differential diagnosis of the liver mass based no the result of CT abdomen:

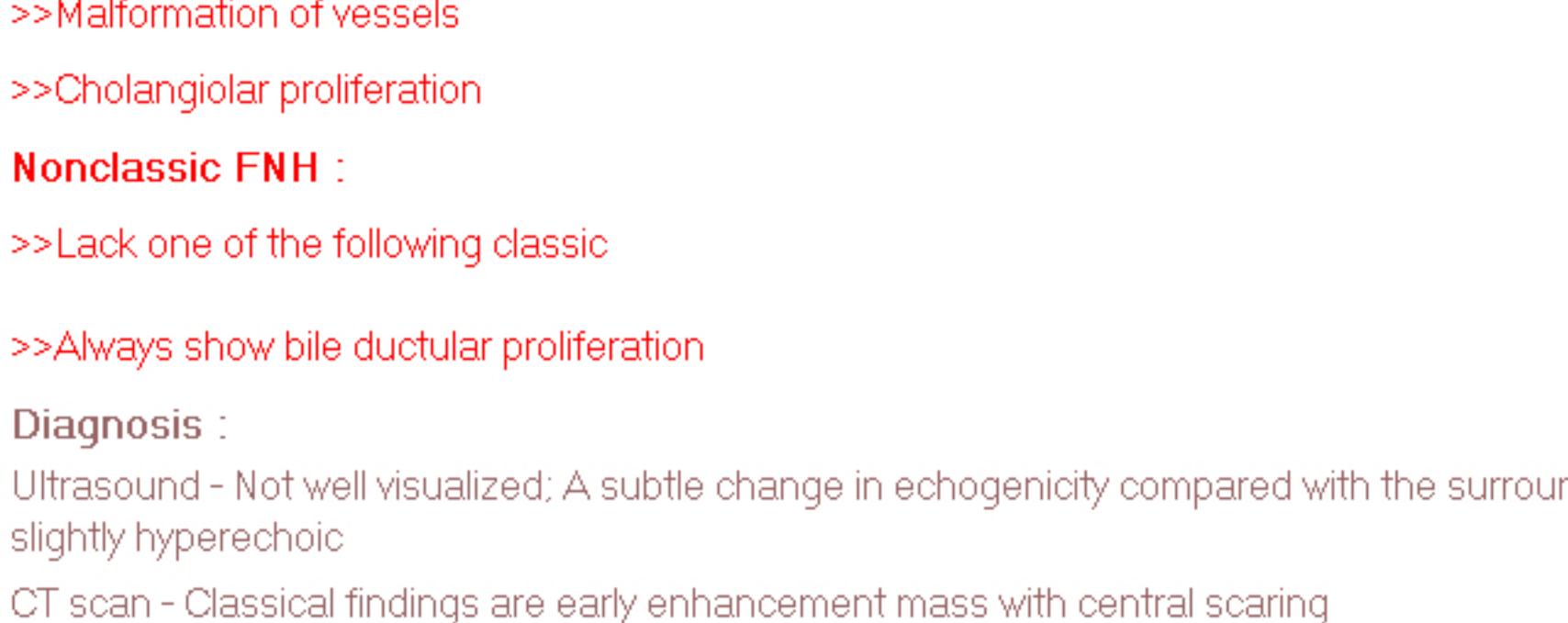
>>>Fibronodular hyperplasia

>>>Hepatoblastoma

>>>Fibrolamellar HCC

**Operation**

Operative findings: A large vascularized mass in left lobe liver about 10 cm. in diameter, irregular surface. Several hilar node 0.5-1.2 cm. in diameter rubbery consistency. Normal Rt. lobe of liver and gallbladder. Minimal clear peritoneal fluid. Frozen section from core needle biopsy is benign

**Pathologic description:**

1- Nodular hyperplastic parenchyma.

2- Nodules: completely or incompletely surrounded by circular or short fibrous septa

3- Hepatic plates may be moderately thickened (two or three cells in thickness) with normal-appearing hepatocytes

4-The central scar:

>>>Fibrous connective tissue

>>>Cholangiolar proliferation with surrounding inflammatory infiltrates

>>>Malformed vessels of various caliber, including tortuous arteries with thickened walls, capillaries, vascular channels of undetermined type, and veins

>>>Normal liver function test

>>>Normal liver enzymes

>>>Normal liver function test