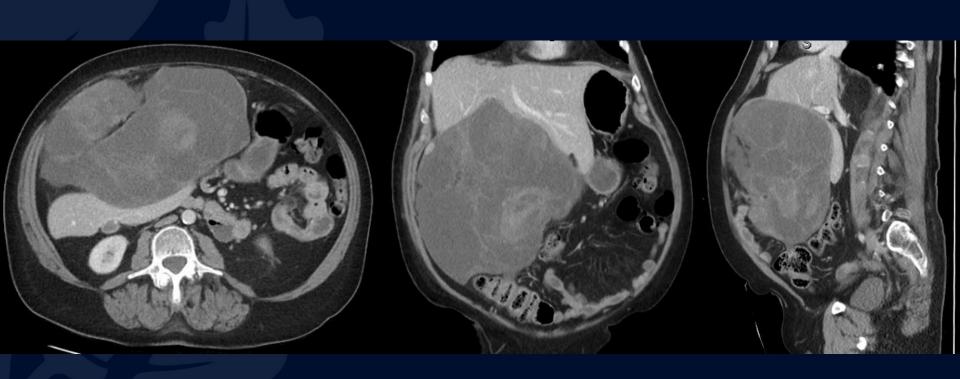
74-year-old female with a 1 month history of RUQ abdominal pain and distension

Victoria Li

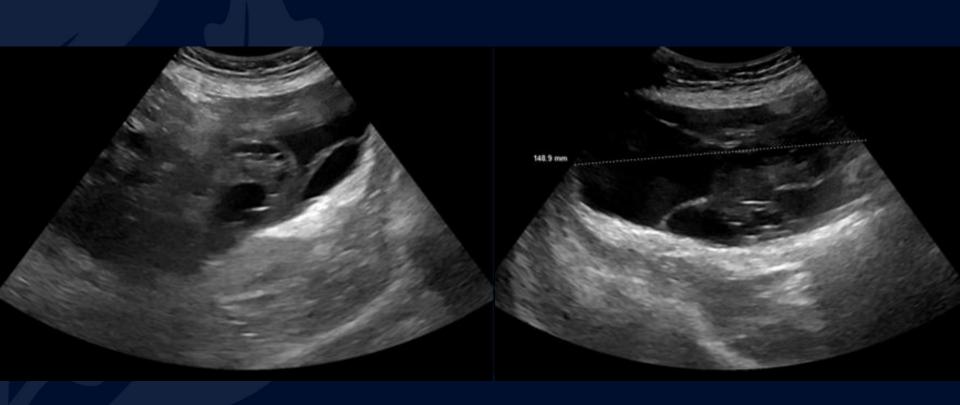


CT IV Contrast





RUQ Ultrasound





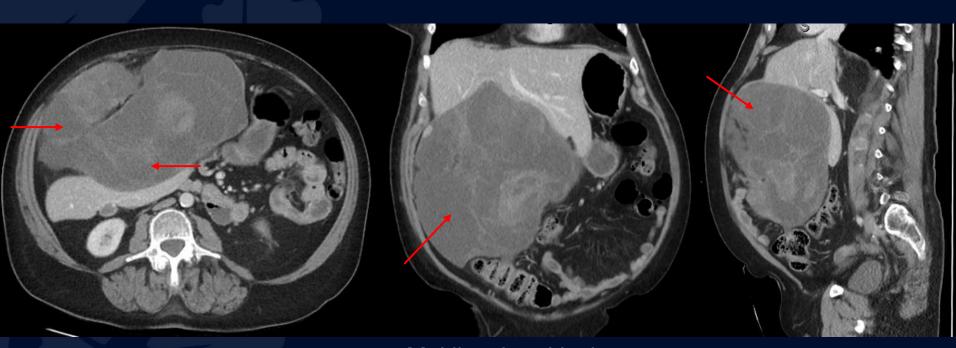




Mesenchymal Hamartoma of the Liver



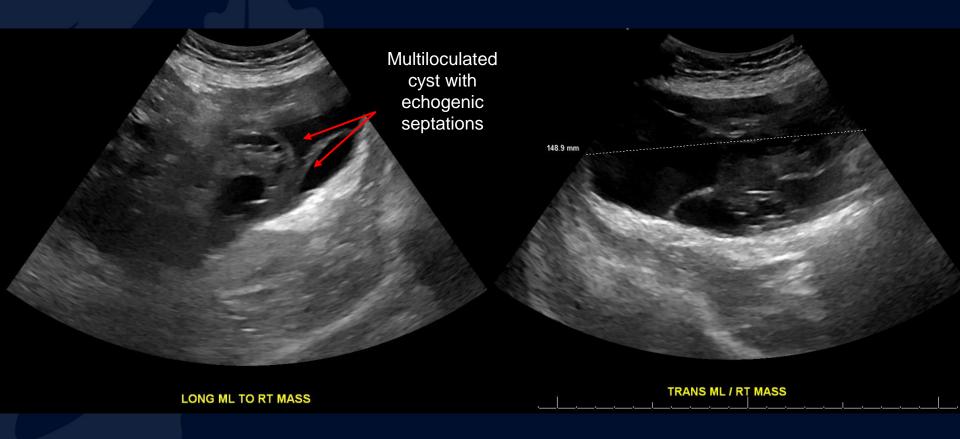
CT IV Contrast



Multiloculated lesions



RUQ Ultrasound





Mesenchymal Hamartoma of the Liver

- Mesenchymal hamartoma
 - Large benign multi-cystic tumor
 - Pathophysiology relatively unknown
 - Commonly seen in neonates/infants, very rare in adults
 - Hypothesized to arise from abnormal mesodermal development in children
 - Possibly related to genetic abnormality: karyotyping shows chromosomal rearrangement in 19q13.4
- Clinical presentation
 - Rapidly expanding liver mass with RUQ pain, fatigue, fever
 - Sometimes spontaneously regress, or will require resection



Imaging Features

Radiography

Hepatomegaly or noncalcified RUQ mass displacing bowel

Sonography

- Anechoic cysts, echogenic septations
 - Mobile septations and hyperechoic nodules are suggestive
 - Swiss cheese or sieve appearance: multiple cysts scattered throughout solid tissue
 - Little blood flow on doppler examination
 - Very rarely hypervascular, when so, blood flow is usually peripherally distributed

CT

- Fluid-attenuating cystic components with enhancing septations
- +/- solid components

MR

- Cystic components: T1 variable, T2 hyperintense, no central enhancement
- Septations/stromal components: T1 and T2 intermediate to low signal intensity, variable enhancement
 - Rarely will mimic a large congenital hemangioma with internal T2 heterogeneity and hypervascular rim with peripheral enhancement



References

Sharma M, Bansal P, Goyal NK. Adult hepatic mesenchymal hamartoma: an unusual case. J Lab Physicians. 2014;6(2):124-126. doi:10.4103/0974-2727.141514

Klaassen Z, Paragi PR, Chamberlain RS. Adult Mesenchymal Hamartoma of the Liver: Case Report and Literature Review. Case Rep Gastroenterol. 2010;4(1):84-92. Published 2010 Mar 13. doi:10.1159/000260183

Del Poggio P, Buonocore M. Cystic tumors of the liver: a practical approach. World J Gastroenterol. 2008;14(23):3616-3620. doi:10.3748/wjg.14.3616

Carlson Merrow, F. J. (n.d.). Mesenchymal Hamartoma. Statdx.com. Retrieved August 17, 2023, from https://app.statdx.com/document/mesenchymal-hamartoma/780b81da-da7a-4f90-b067-11a910a34fd7

