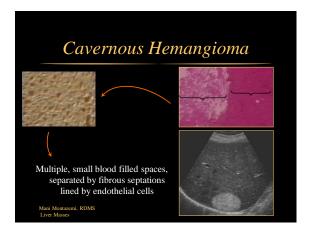
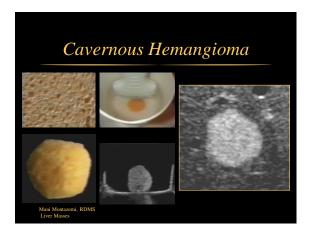
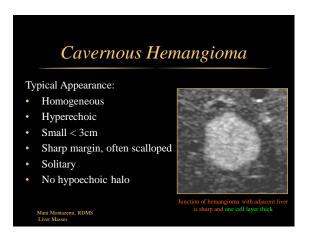
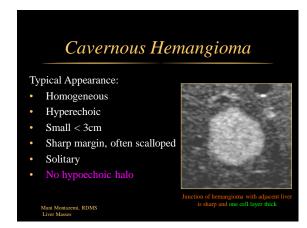


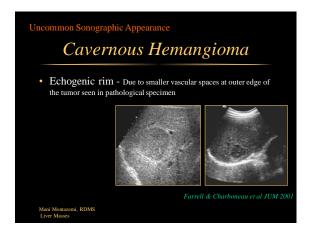
Cavernous Hemangioma Most common benign liver lesion Incidence 4 -7% at autopsy or imaging Asymptomatic lesion of no clinical significance Radiological importance Differentiate from significant masses

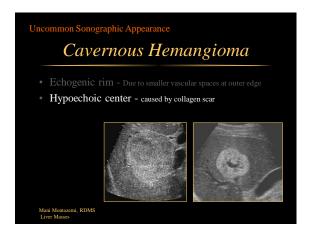


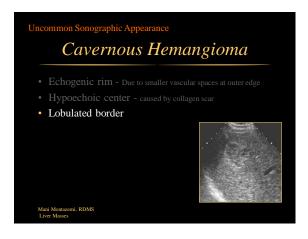


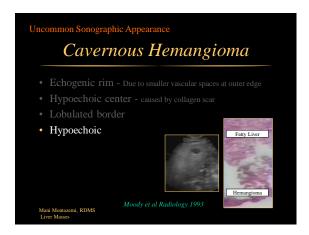






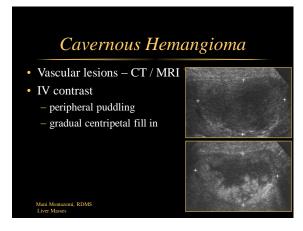


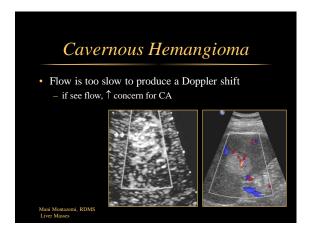


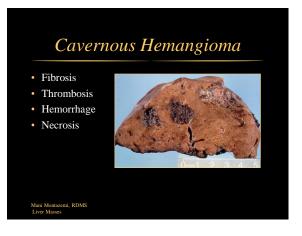


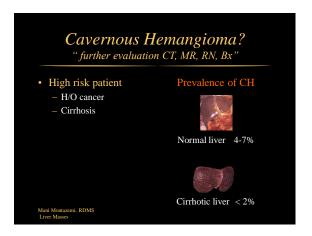


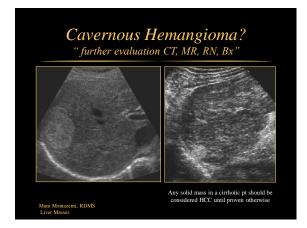


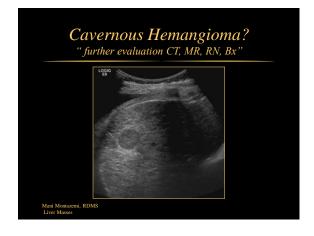


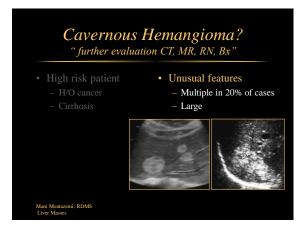


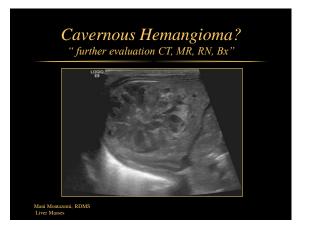




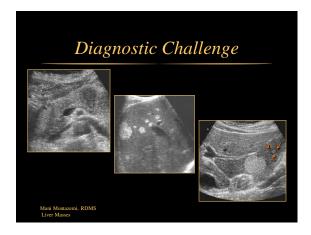






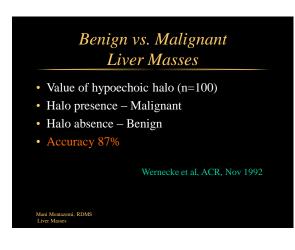


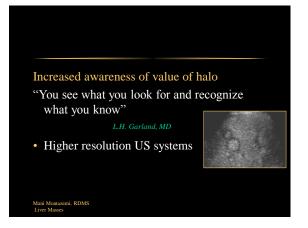




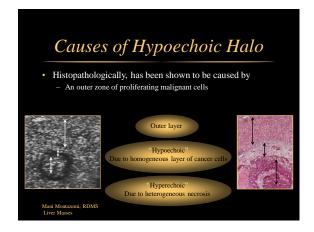
Simulators of Cavernous Hemangioma • Hyperechoic, but attenuate sound • Hyperechoic, but has hypoechoic halo Colon Neuroendocrine Marii Montazemi, RDMS Liver Masses

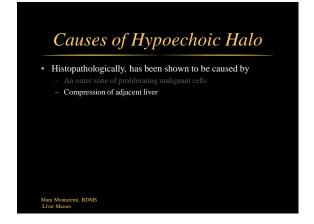
Neuroendocrine metastasis Neuroendocrine metastasis Extremely rare Neuroendocrine 1/100,000 vs. CH 4000/100,000 Patients usually symptomatic Patients usually have established diagnosis Almost always multiple & advanced when first detected

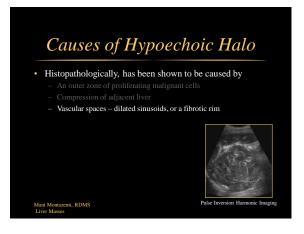








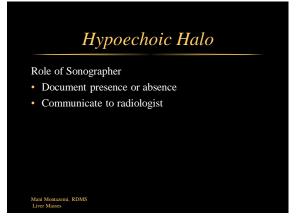


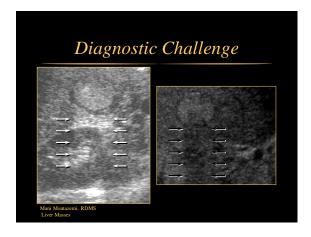


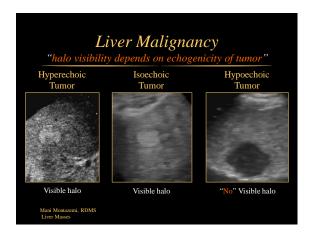
Remember

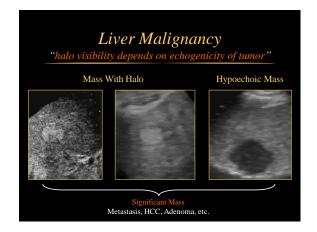
Peripheral hypoechoic
halo is most evident
during real-time exam

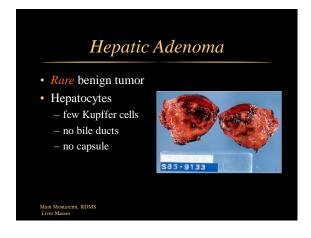
Mani Montazeni, RDMS
Liver Masses

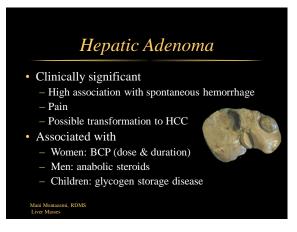


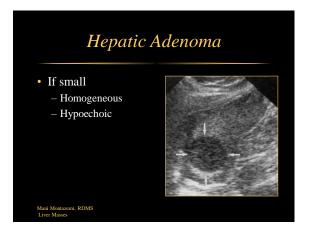


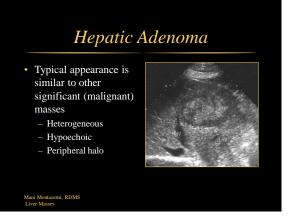


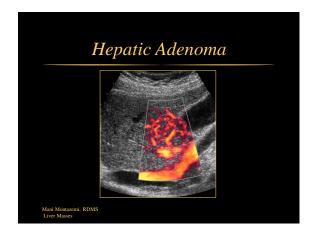




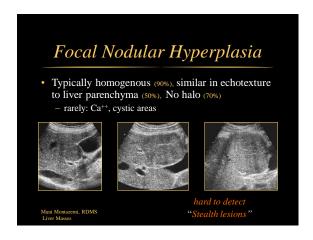


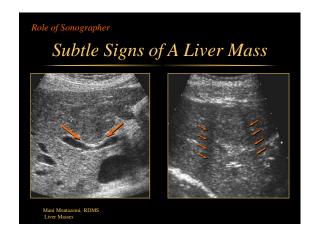




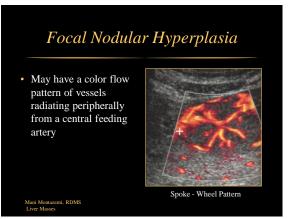


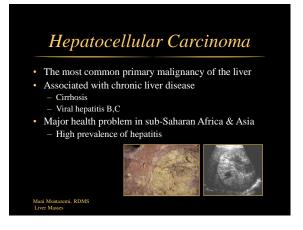
Focal Nodular Hyperplasia Second most common benign liver tumor Usually occurs in females (85%) More commonly detected today because of early phase (arterial) contrast material on spiral CT Like hemangioma, it is almost always clinically insignificant - Low risk of hemorrhage

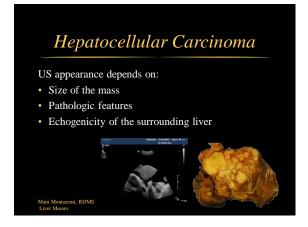


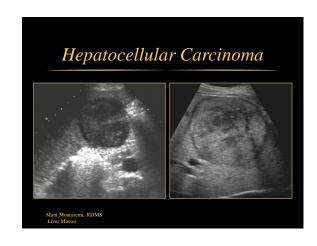


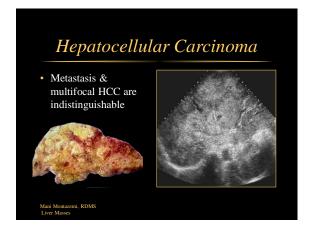


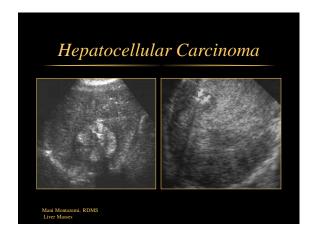


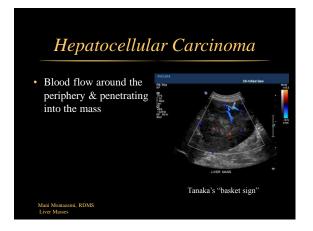






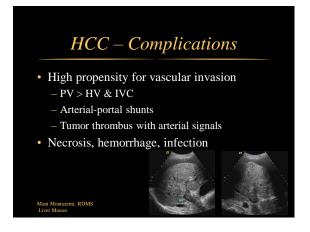




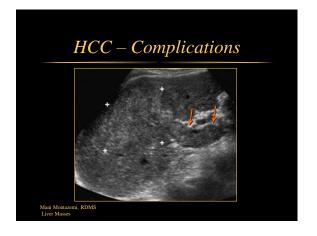




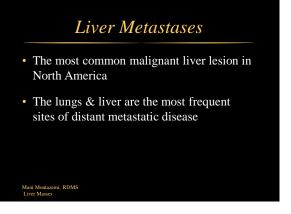




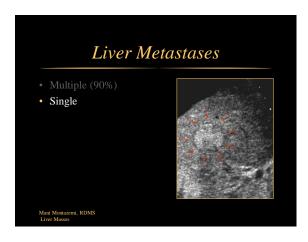


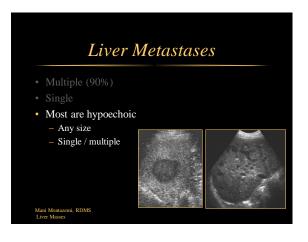


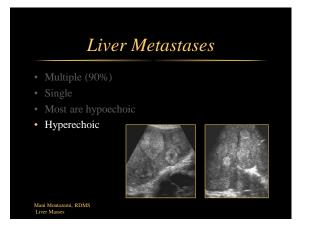




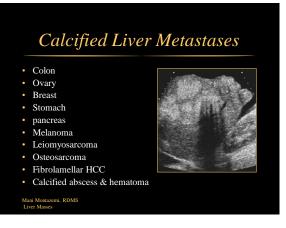




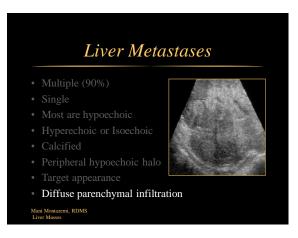


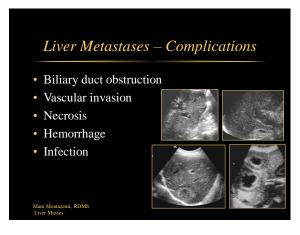


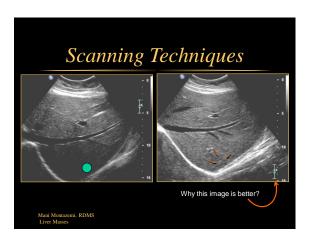




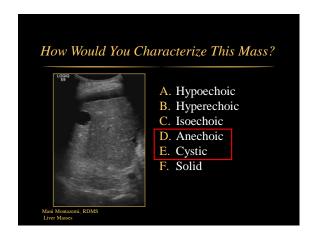




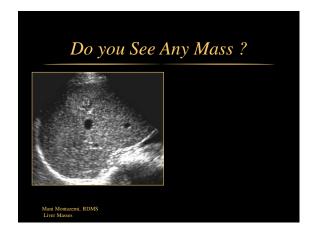




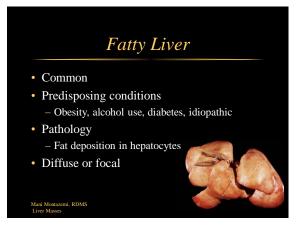




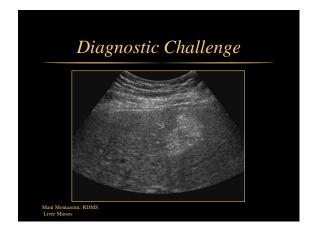










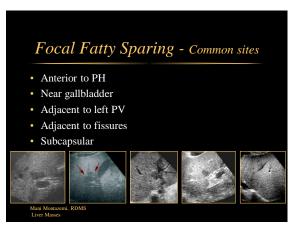


Focal Fatty Liver Geographic pattern Interdigitation of normal parenchyma No mass effect on vessels Solitary or multiple





Focal Fatty Sparing • Focal area of normal liver echogenicity w/in otherwise diffusely echogenic liver • Geographic - not round • Vessels will penetrate – no mass effect • May be mistaken for mass – confirm with CT/MR



Summary

 Most cavernous hemangiomas are reliably differentiated from significant masses

Homogeneous & Hyperechoic Solitary, Small < 3cm Sharp margin, often scalloped No hypoechoic halo

Mani Montazemi, RDM



• Most significant masses - Have a peripheral halo - Hypoechoic - Multiple

• FNH – most are - Homogenous, isoechoic, without halo - Confirmatory exam • CT, MR, RN, Biopsy

