

Játra

Co je to?

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Náhodný nálezn ložíška

Je v játrech ložíško?

ANO pak

Benigní nebo maligní?

Benigní pak

Lze vyloučit adenom?

Maligní pak

Je to primární tumor nebo metastáza

Je v játrech ložisko

Zásadně trvat na obrazové dokumentaci, pokud není k dispozici, raději ji zopakovat – klíčový je UZ

Chyba – prosím o MR (CT, PET jater), na UZ patrné ložisko, snímky nejsou k dispozici.

**Anamnéza alespoň od pacienta
- tumor, cirhóza, hepatitida, AFP....**

Pozor

HCC – Barcelonská (EASL) kritéria CT!!!

CCC – pozdní fáze – CT, MR

FNH – MR specifický kontrast

Metastázy - PET, staging

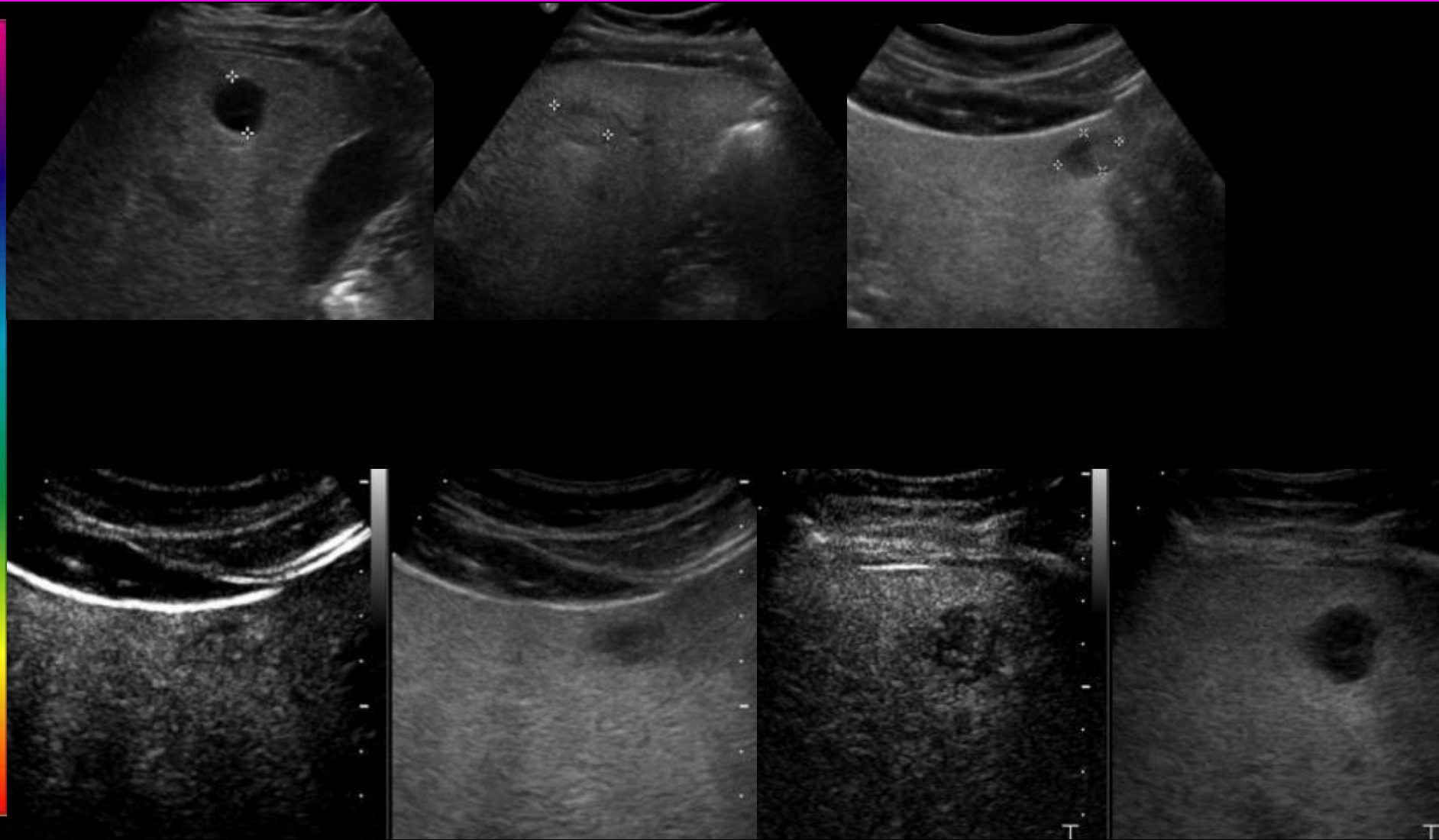
Vzácné = biopsie

Pamatuj

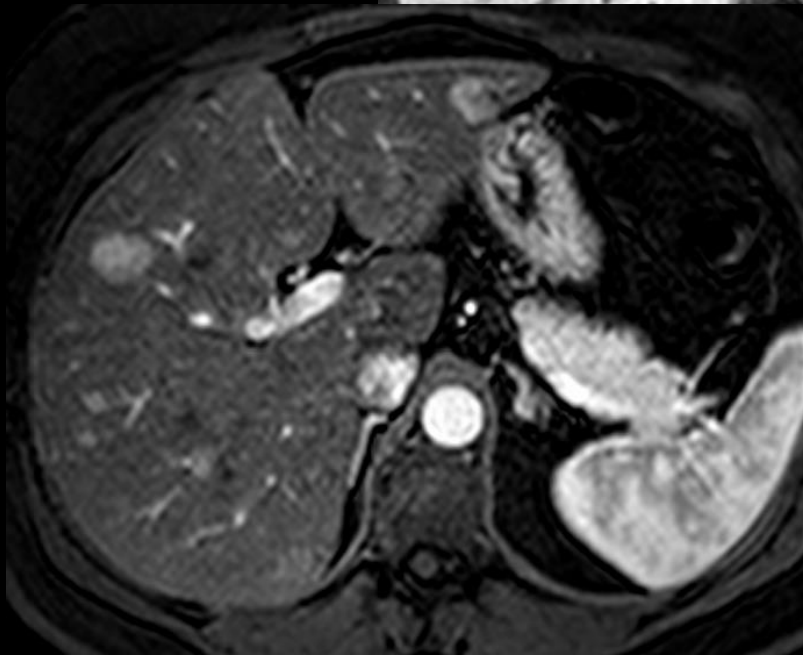
Atypický obraz běžného ložiska je daleko pravděpodobnější než typický obraz vzácného ložiska.

**Některé choroby jsou častější, než si myslíme
- adenom, Echinococcus, zánětlivý pseudotumor**

FNH, adenom??



FNH, adenom



FNH, adenom

**Hepatocellulární adenom,
z biopsie – hepatocelulární
adenom, zánětlivý typ**

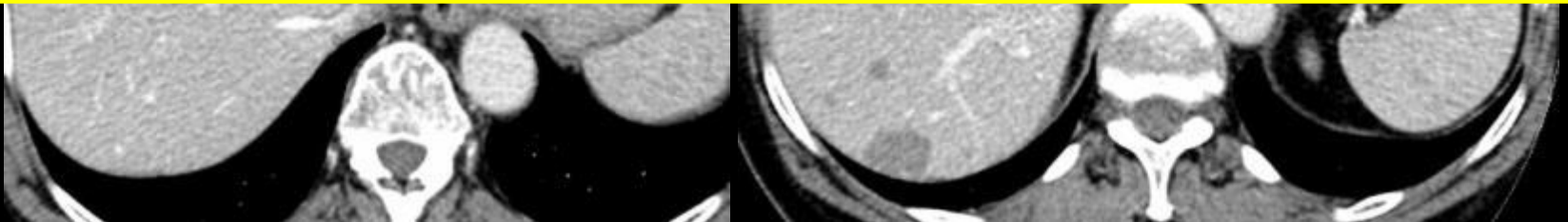
In phase

FNH, adenom???

**Hepatocellulární adenom,
z biopsie – hepatocelulární
adenom s výraznou
steatózou, zánětlivý typ**

FNH, adenom???

**Hepatocellulární adenom,
z biopsie – hepatocelulární
adenomatóza**



FNH, adenom, hemangiom



**Hepatocellulární adenom,
z biopsie – hepatocelulární
adenom**

FNH, adenom, hemangiom



The background of the slide features four ultrasound images of liver lesions. The top row shows a large, well-defined, hyperechoic lesion (likely FNH or adenoma) and a smaller, more complex lesion. The bottom row shows two smaller, less distinct lesions. A vertical color bar is visible on the left side of the slide.

**Hepatocellulární adenom,
z biopsie – hepatocelulární
adenom**

FNH, adenom, hemangiom

Dle histologie 2x adenom

Benigní x maligní

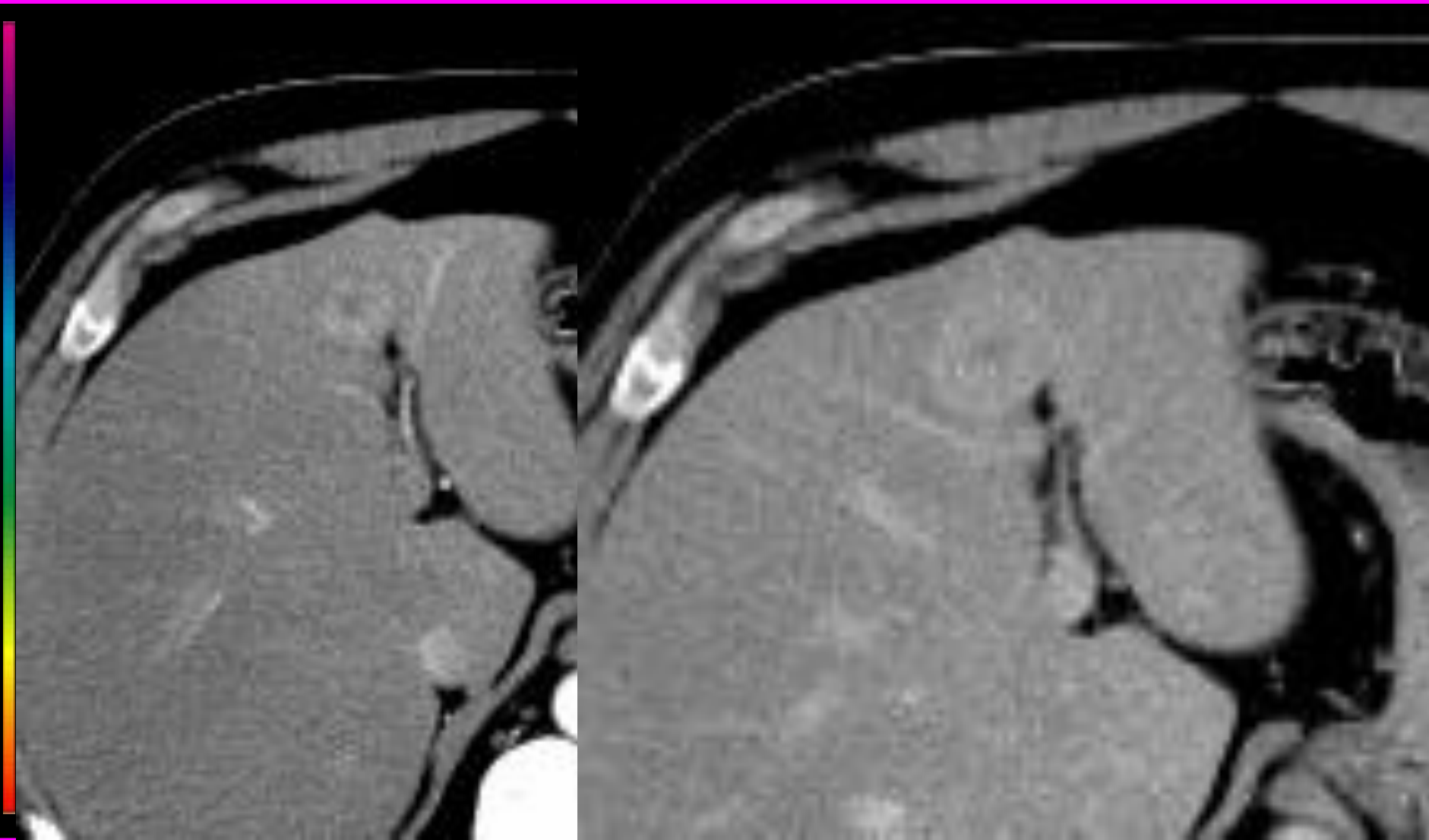
FNH



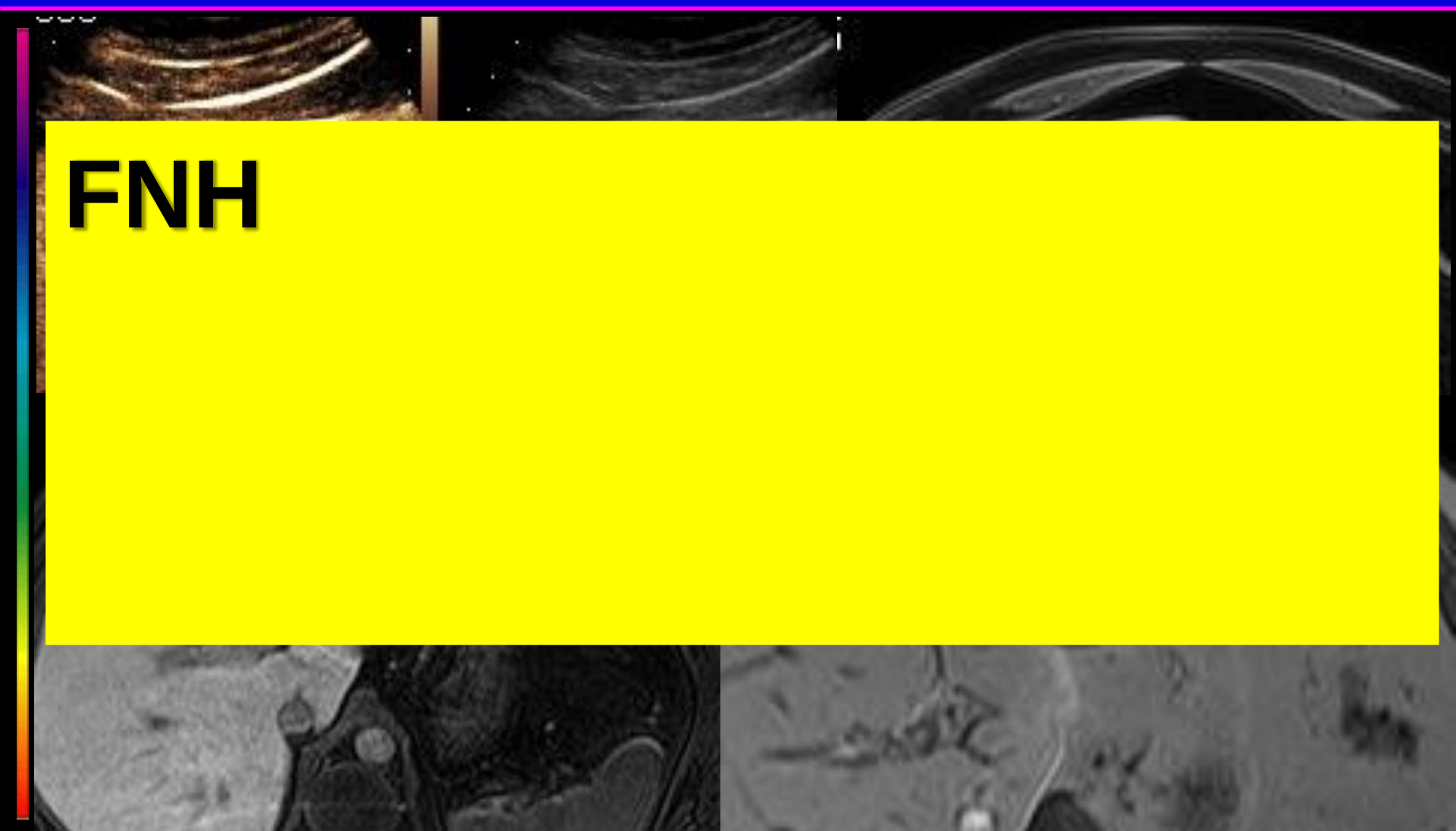
Na co se soustředit

**Muž, náhodný nález, ročník 1980, z UZ
podezření na HCC, AFP v normě**

FNH, adenom, hemangiom



FNH, adenom, hemangiom

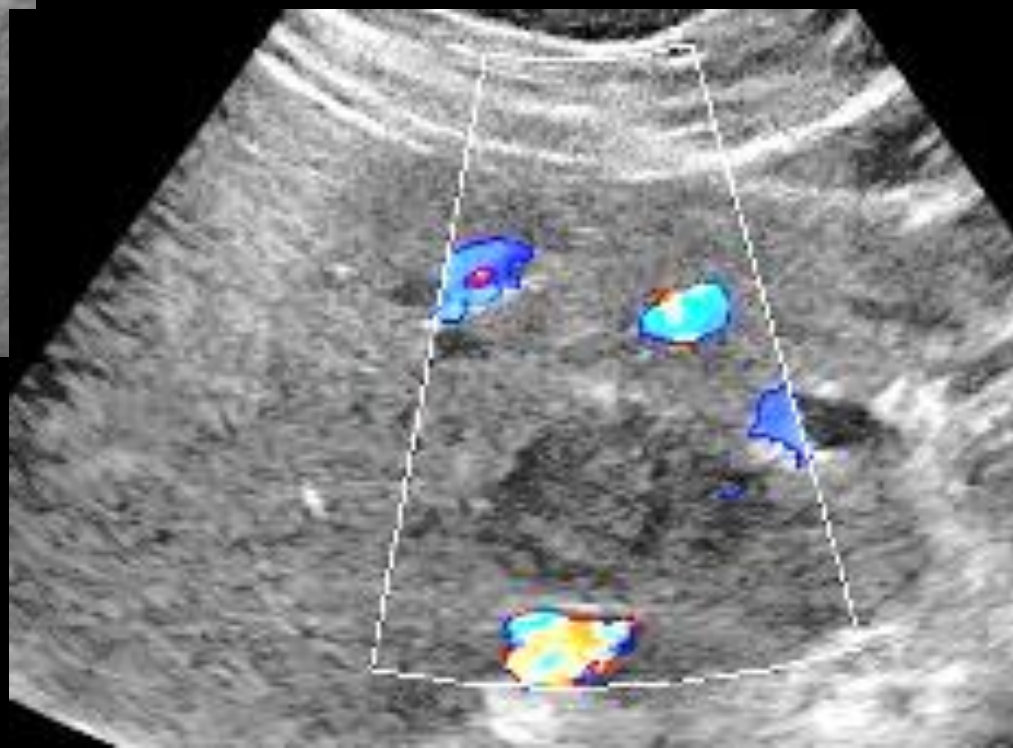
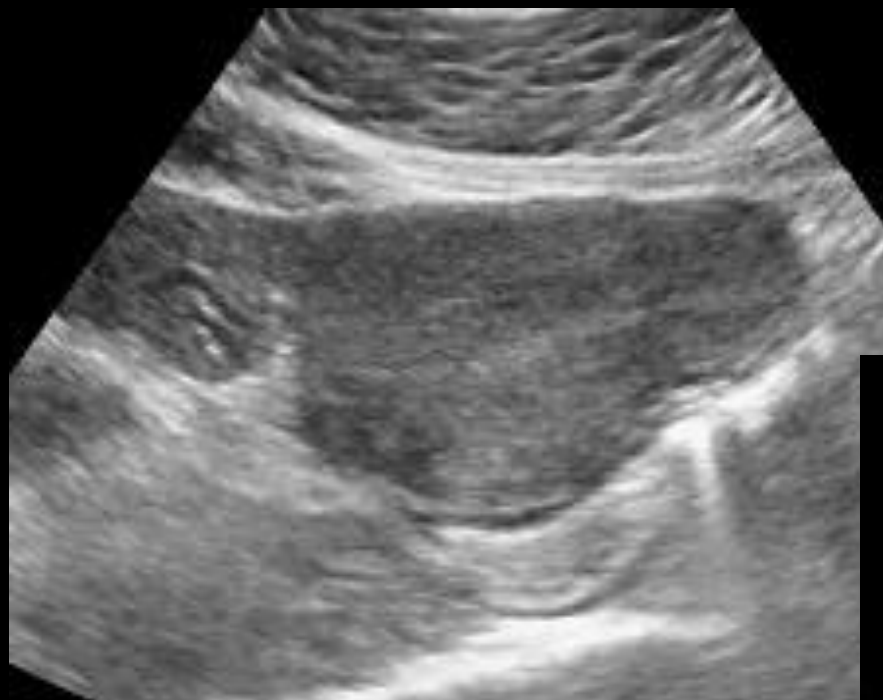


FNH

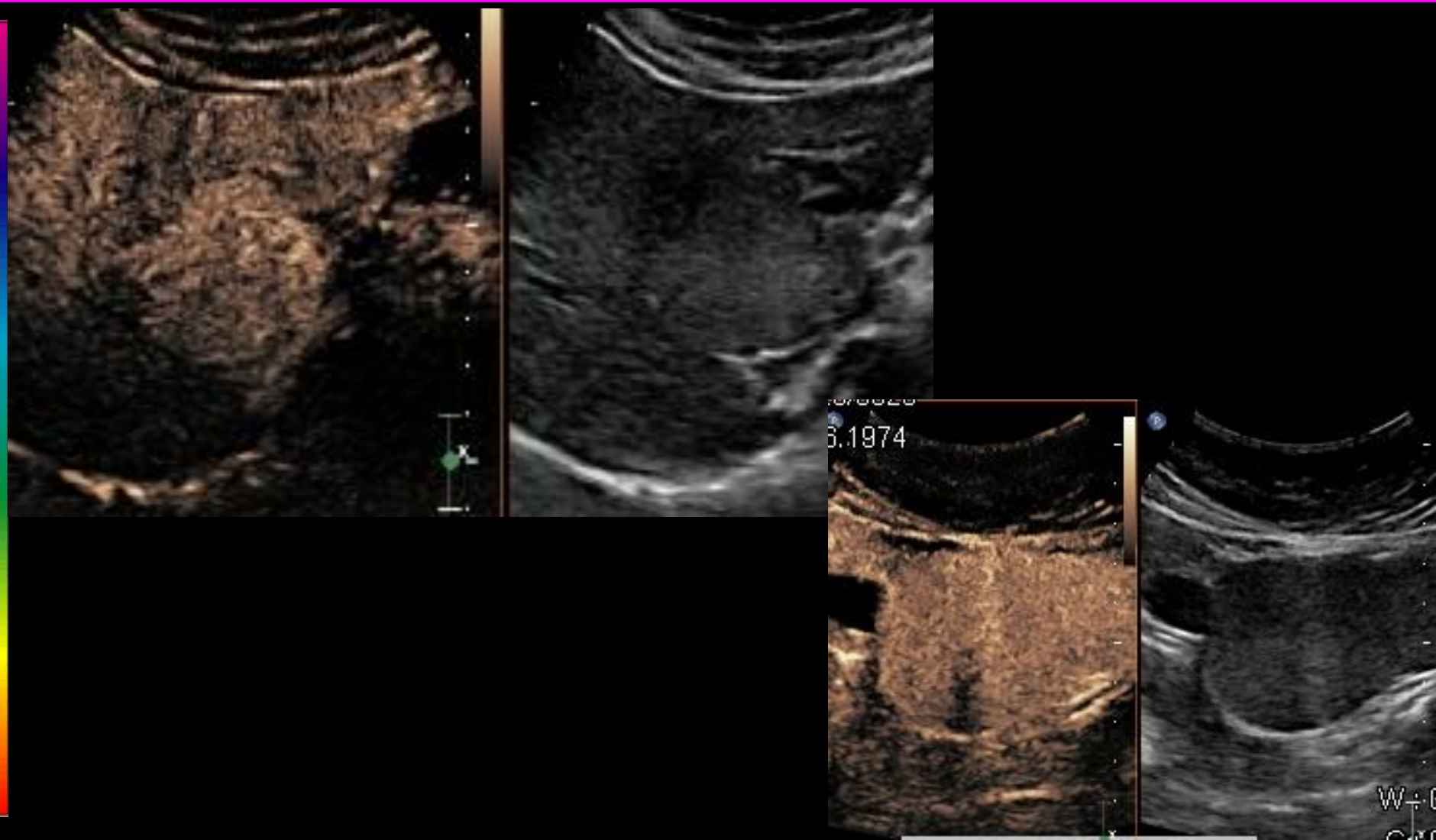
Na co se soustředit

Žena, 1974, náhodný nález na UZ, bolest břicha

Benigní??



Benigní??



Benigní??

FNH

Na co se soustředit

Žena, 1956, bolesti břicha

Benigní??



Benigní??



FNH



Na co se soustředit

Žena, 1978, bolesti břicha

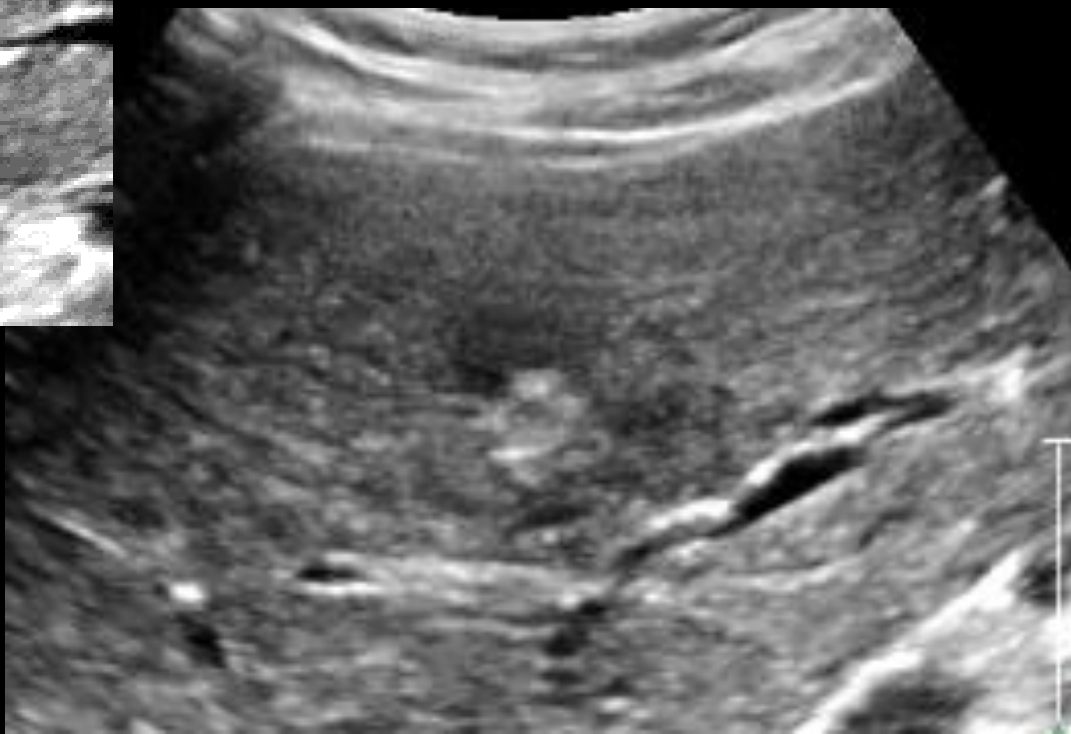
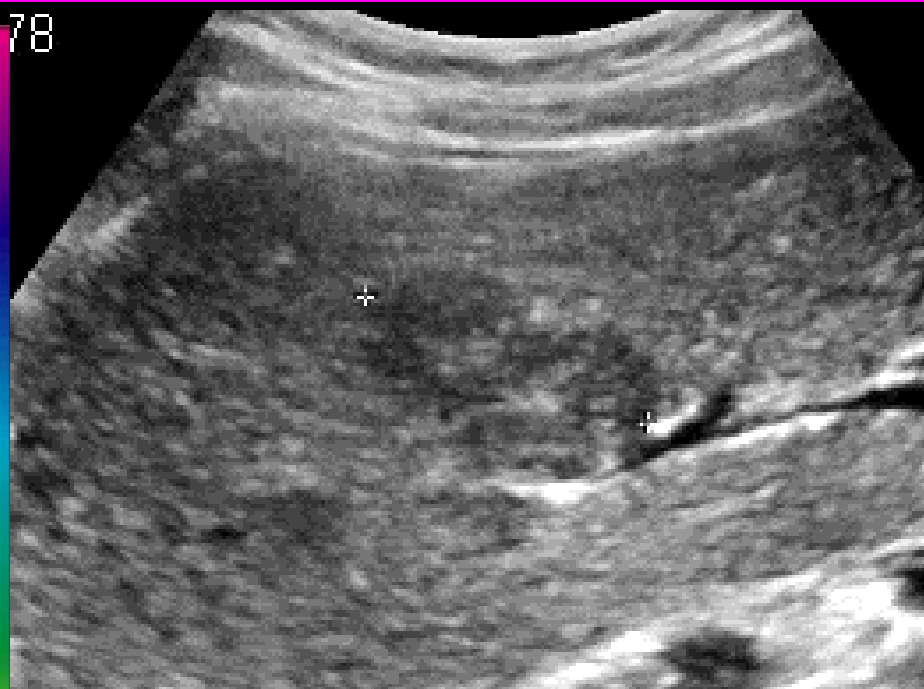
Benigní 20.12.11??



Benigní 12.06.12??

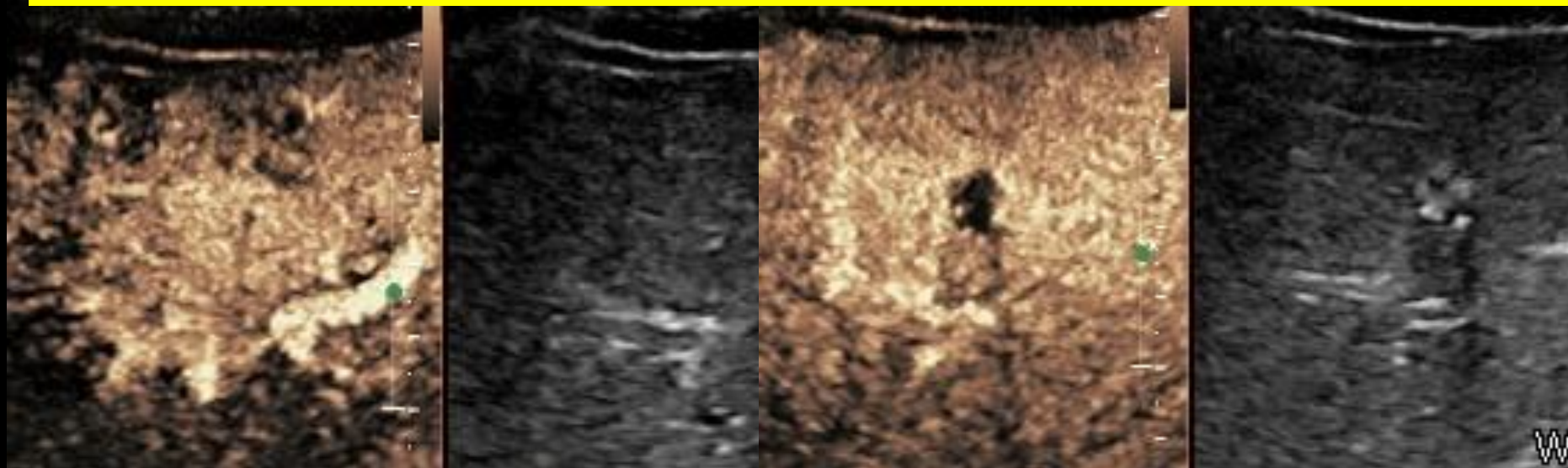


Benigní??



Benigní??

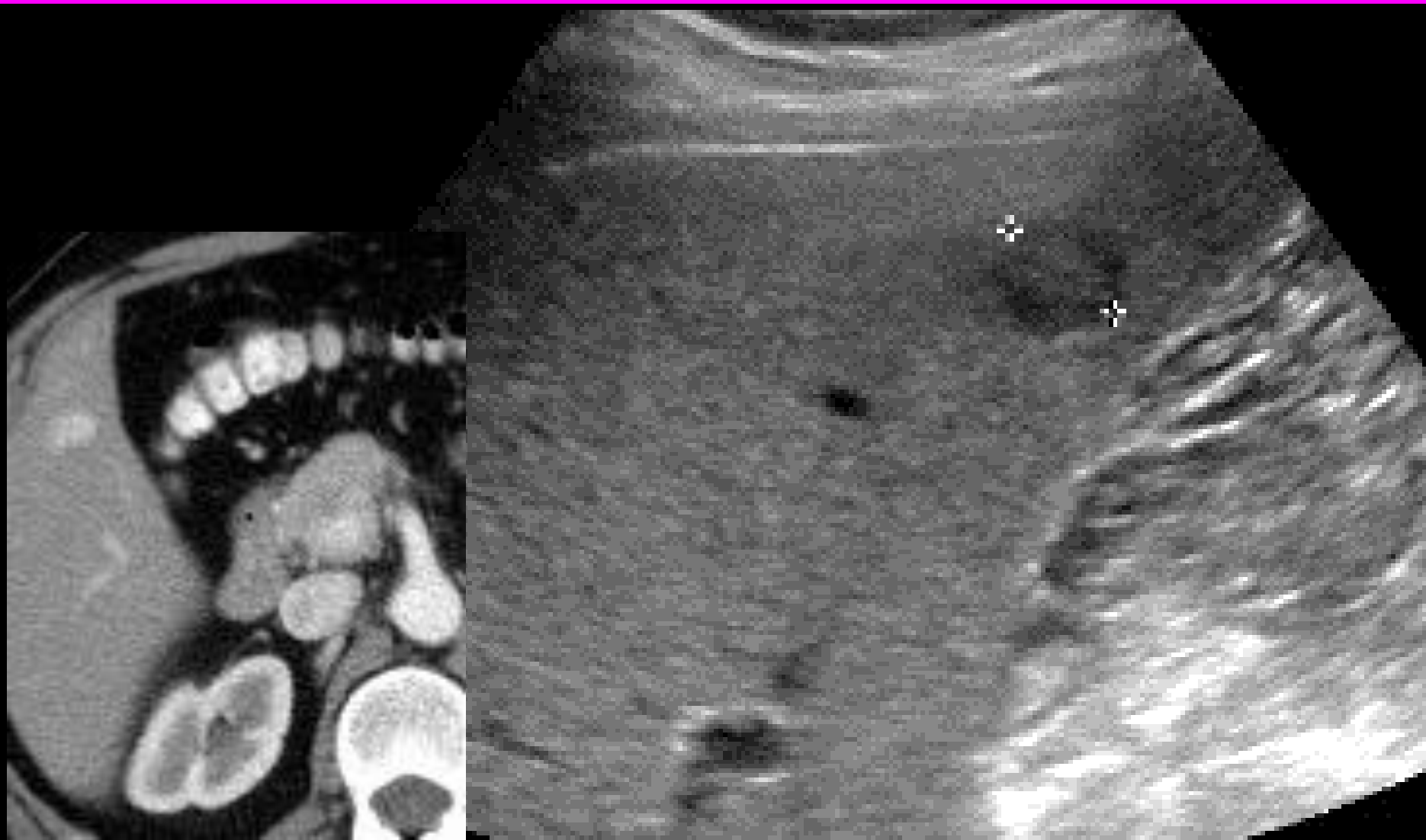
FNH



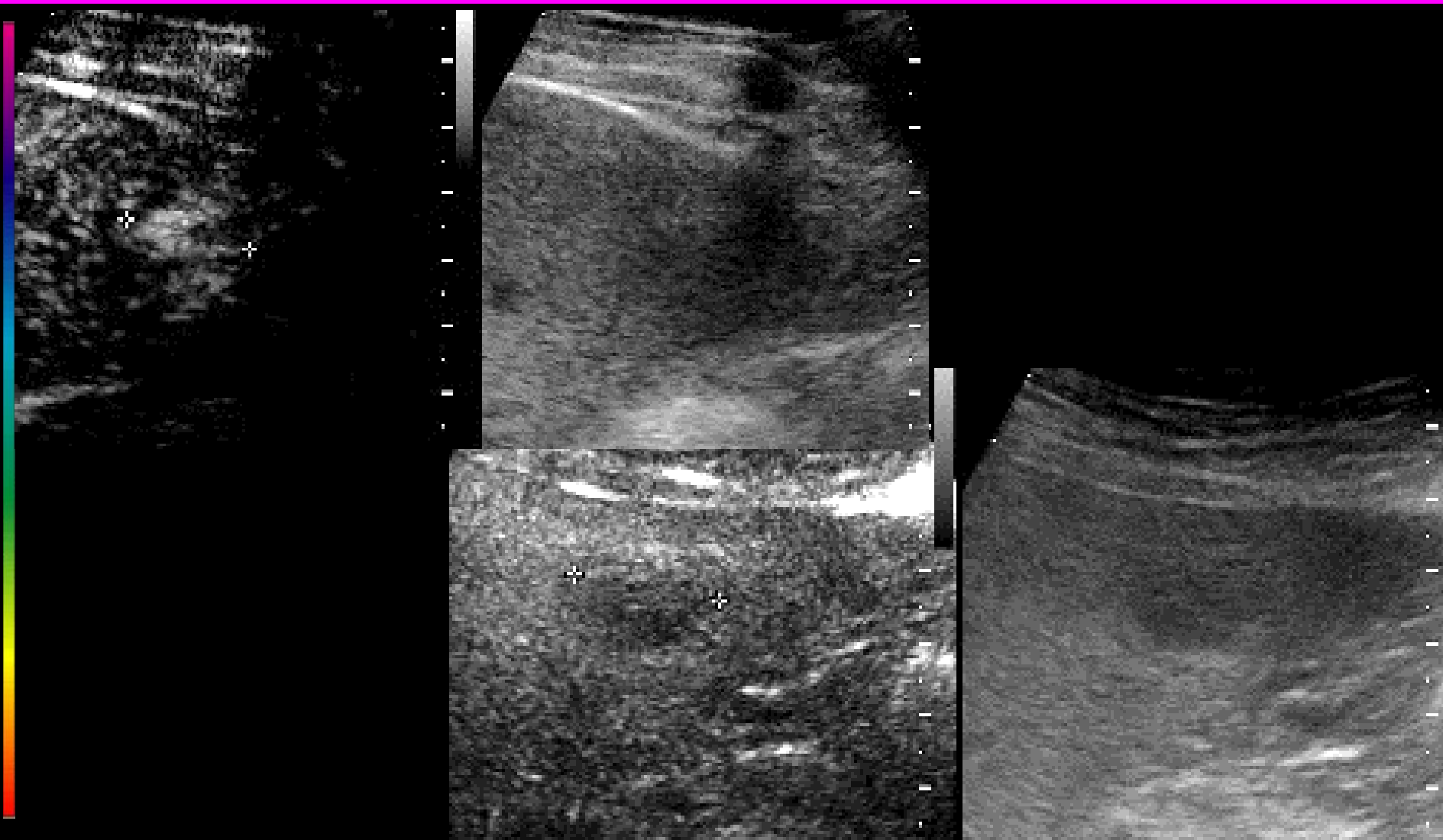
Na co se soustředit

Muž, 1965, epitheloidní maligní schwanom

Benigní??

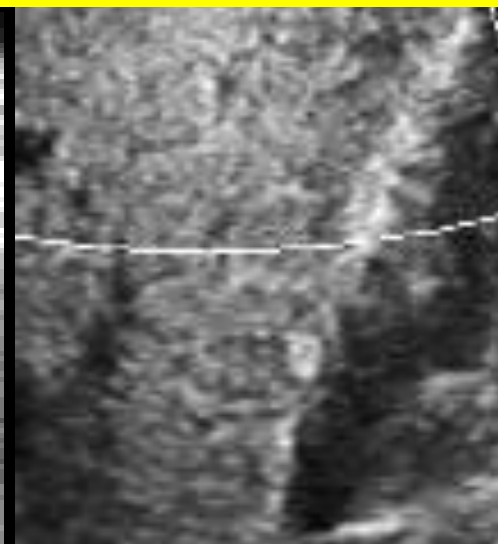
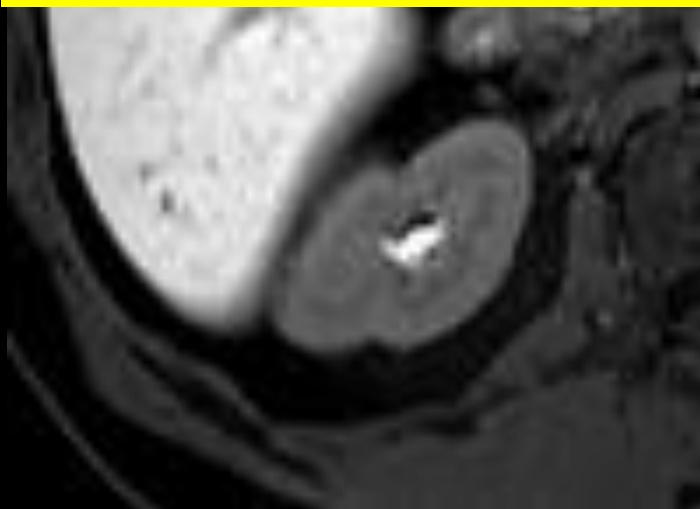
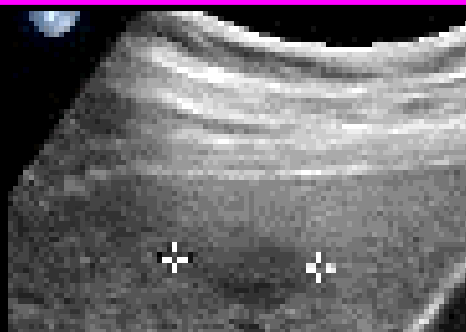


Benigní??



Benigní??

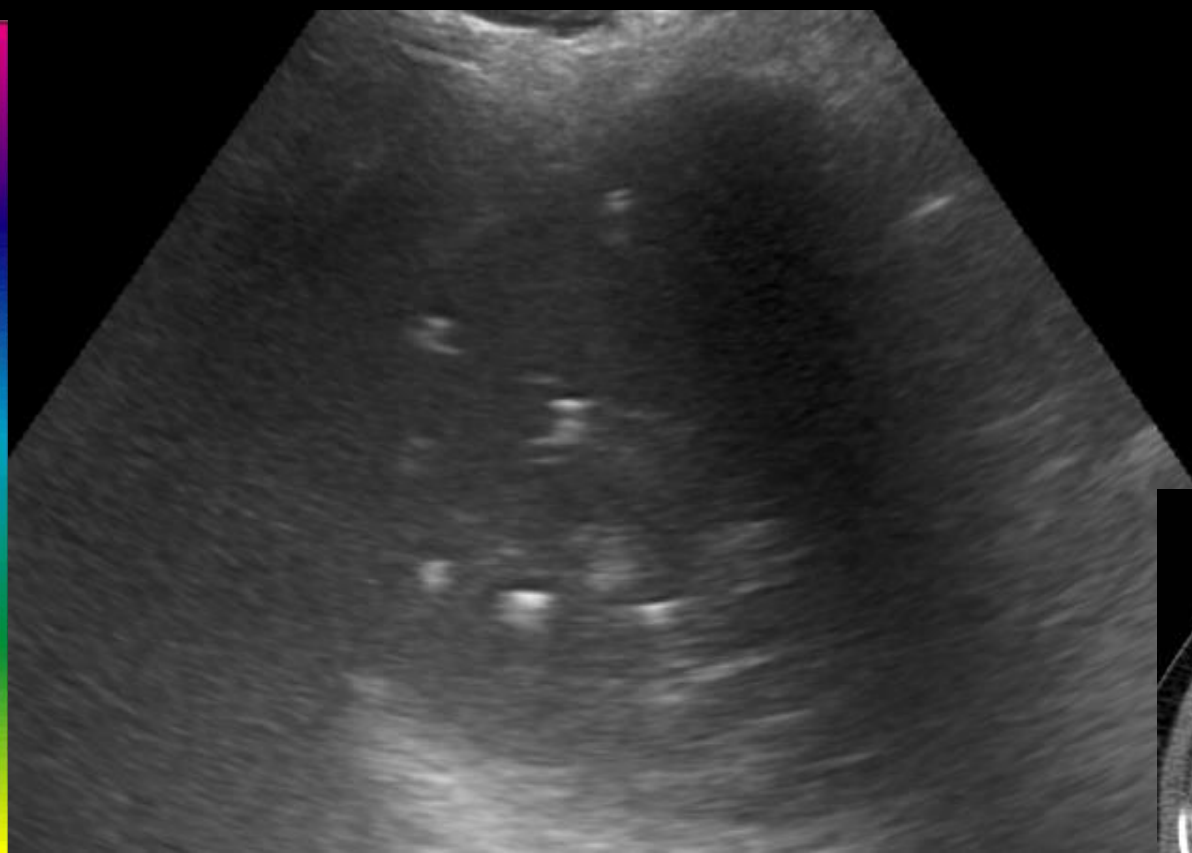
FNH



Na co se soustředit

Žena, 1946, tumor Vaterské papily

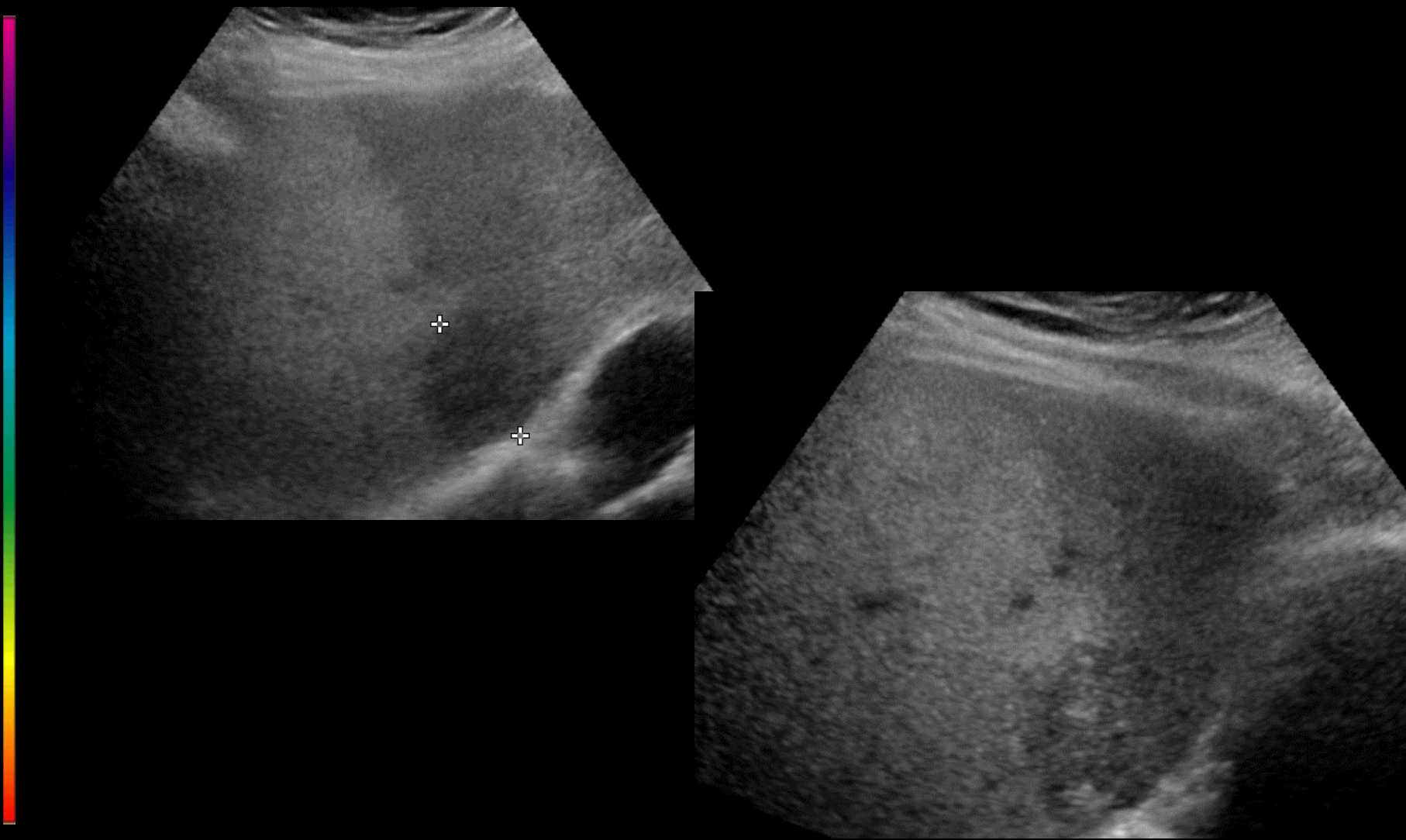
Benigní??



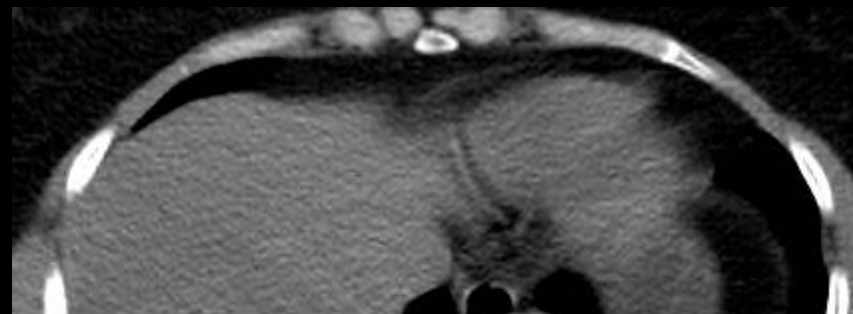
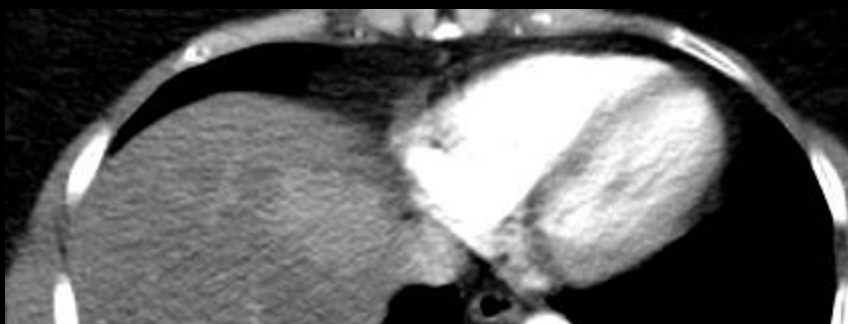
Na co se soustředit

Žena, játra, náhodný nález

Benigní??



Benigní??



FNH



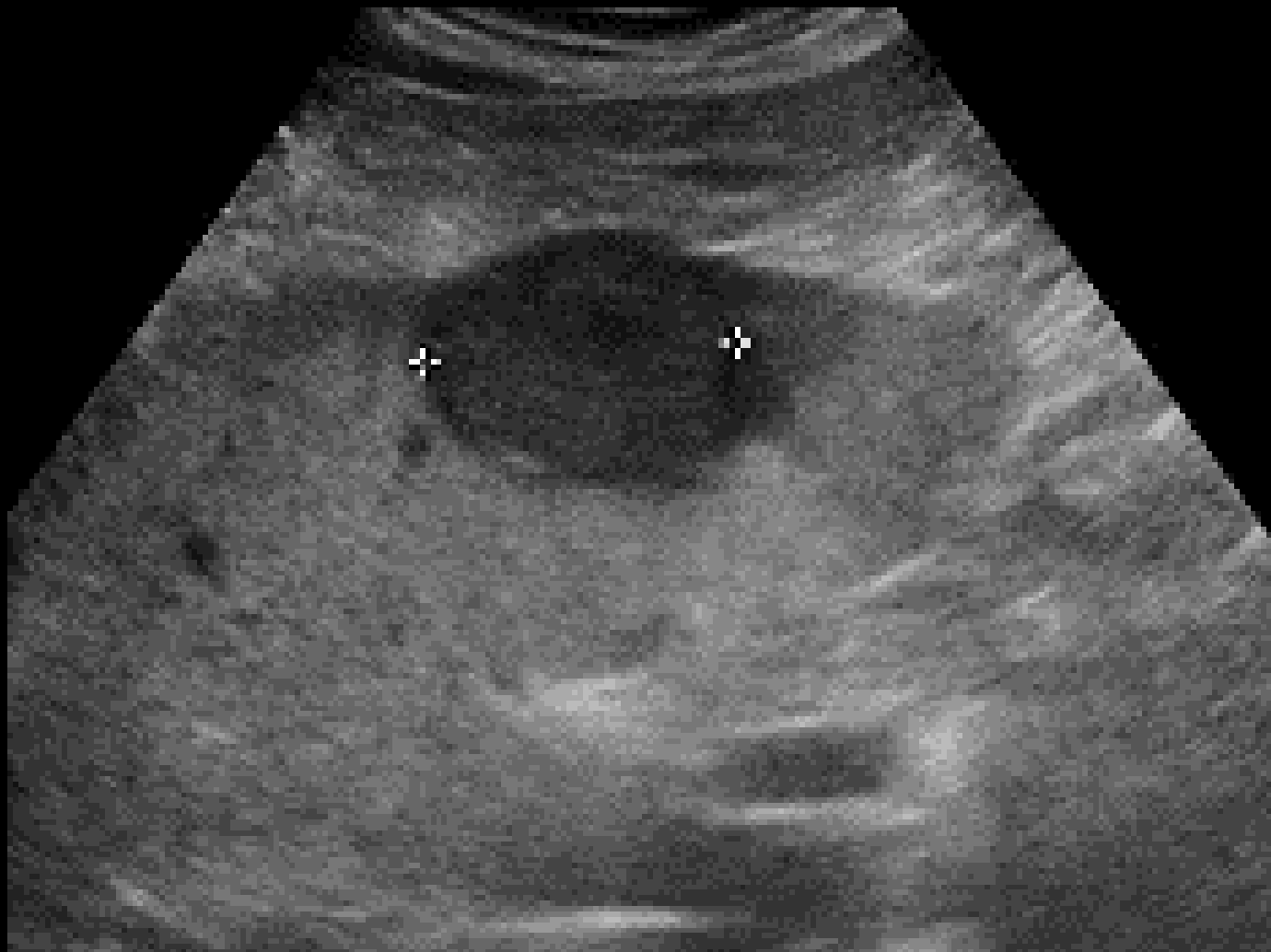
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001010

Na co se soustředit

Muž, náhodný nález

Benigní??



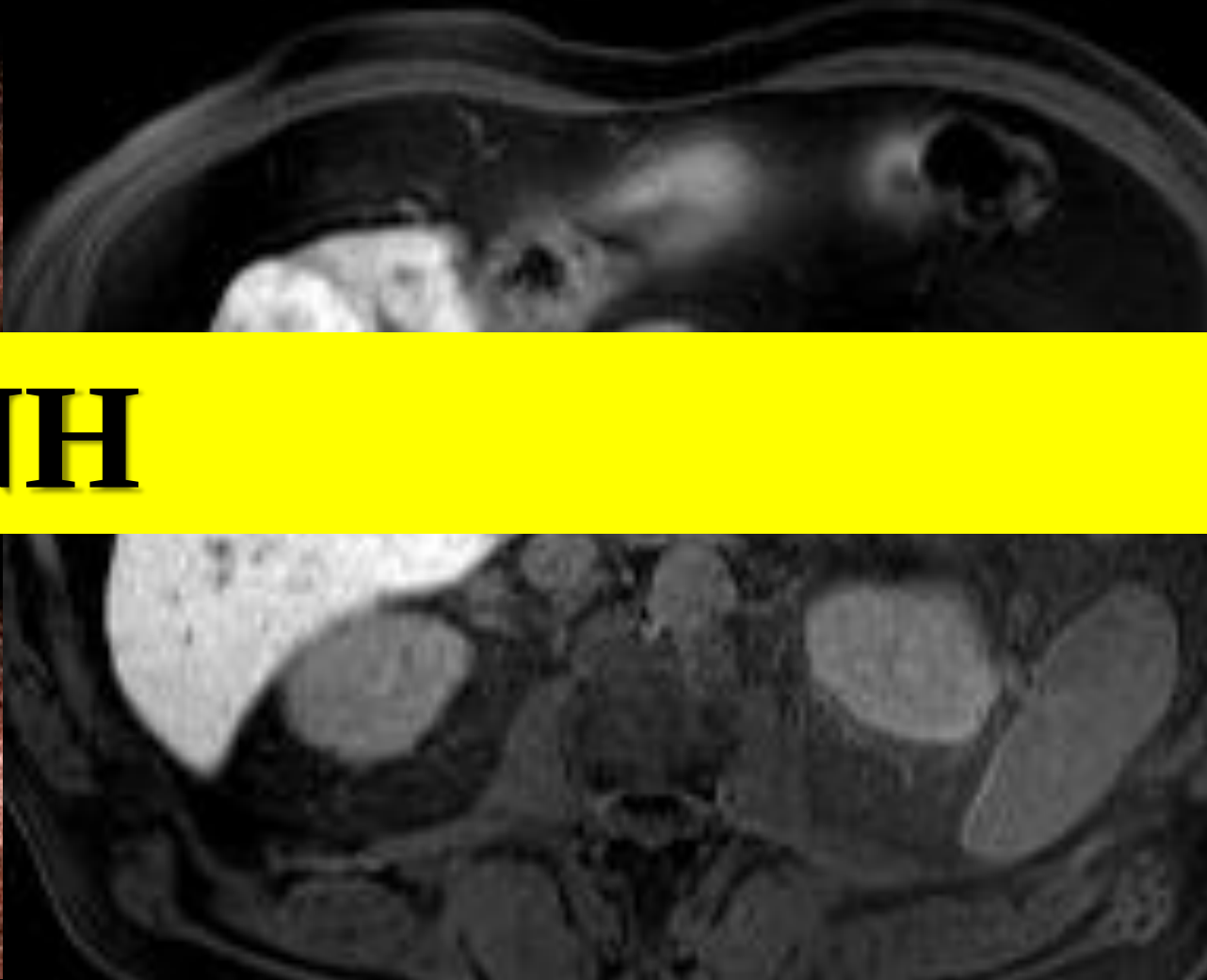
Benigní??



Benigní??

1940

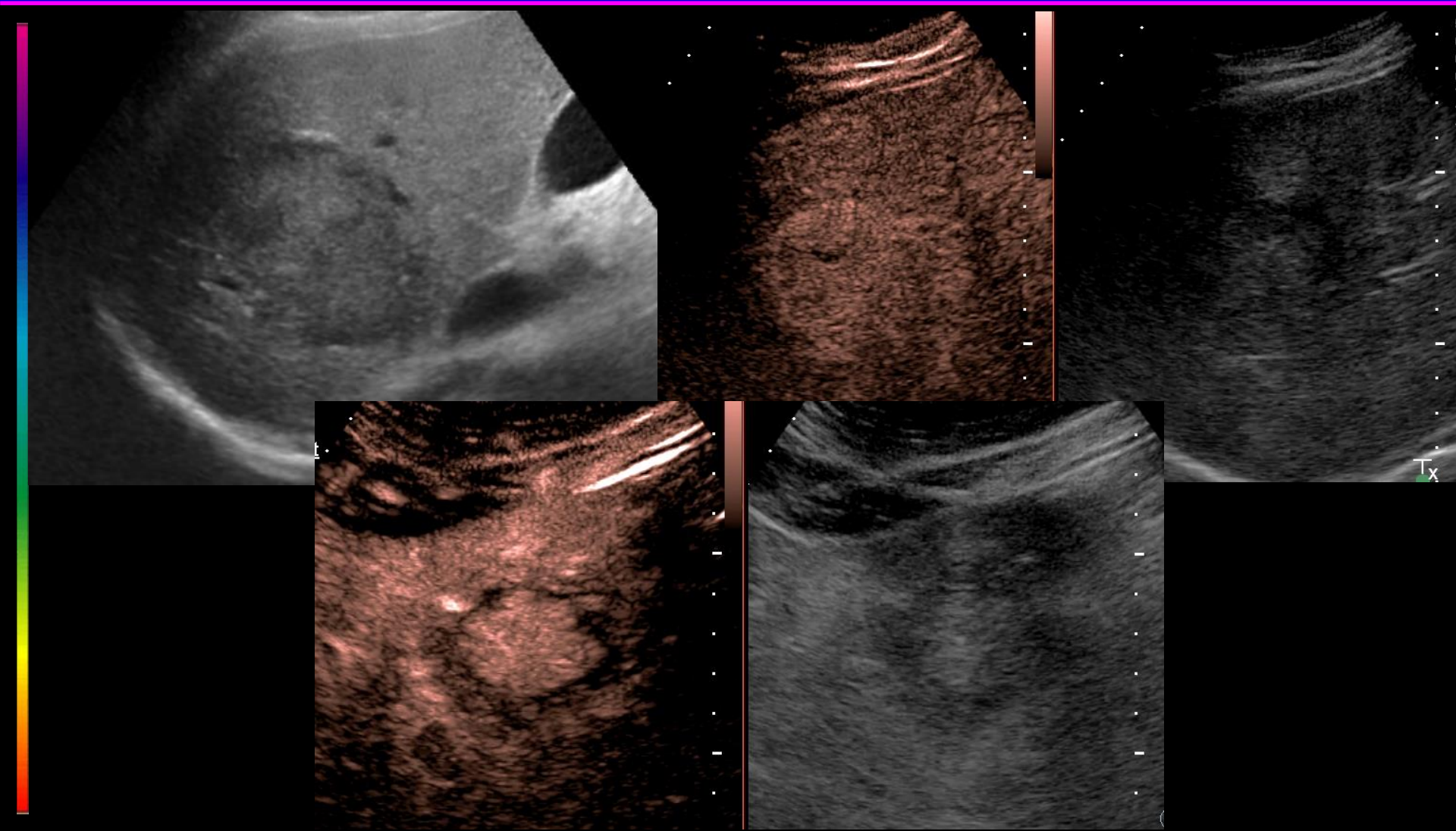
FNH



Na co se soustředit

Žena, játra, 1986, náhodný nález

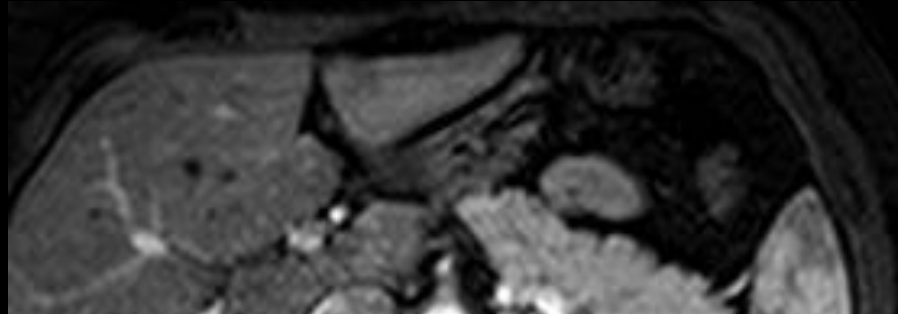
2012



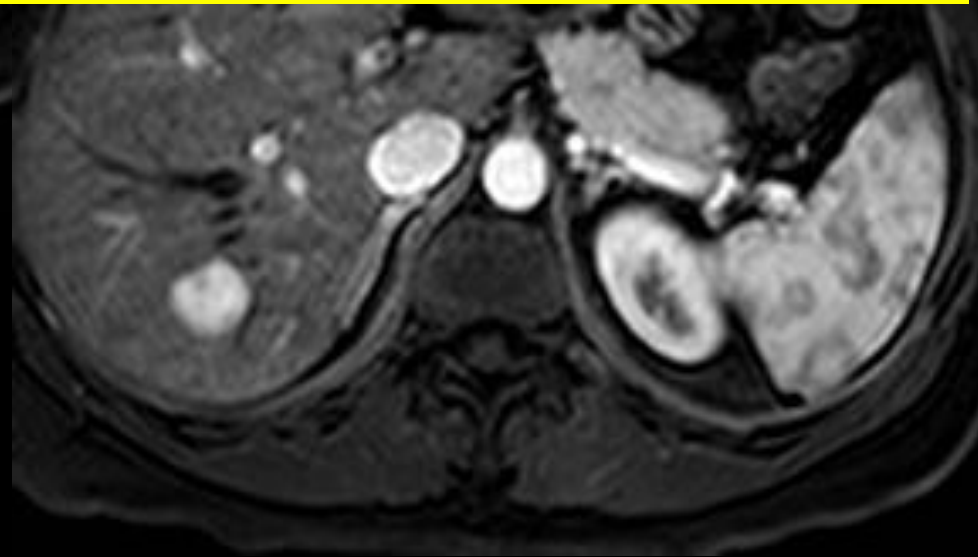
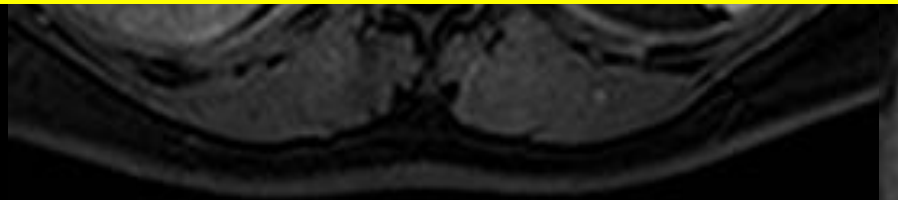
2014



2016



FNH



Na co se soustředit

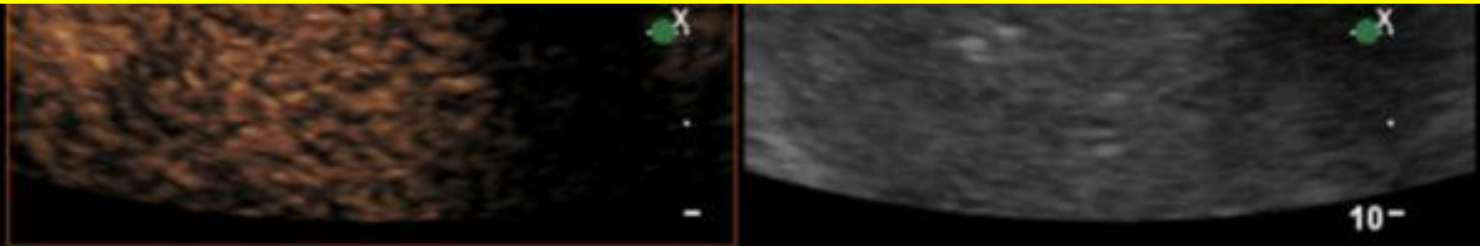
Žena, tu střeva, sledovaná rok, roč. 67, stav po hemikolektomii před rokem.

Cysta???



Cysta???

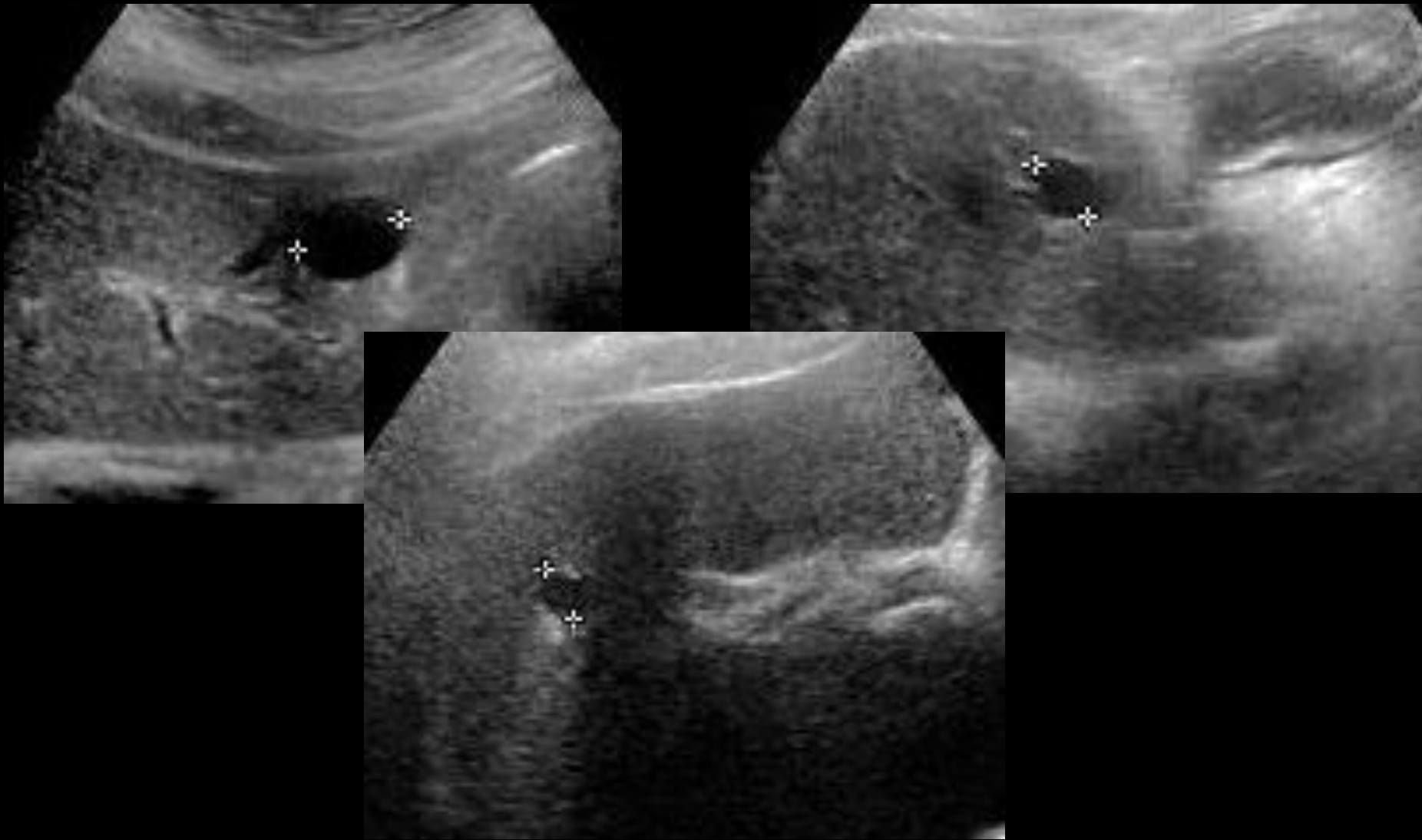
**Známý tumor, kolorektální
ca, 1x cysta, 1x metastáza**



Na co se soustředit

Žena, tu střeva, sledovaná rok, roč. 65, stav po hemikolektomii před rokem.

Cysta??



Cysta??



Cystické metastázy
Ložiska – známý tumor –
jaká byla léčba?



Na co se soustředit

Žena, v anamnéze ca prsu.

Cysta, absces??

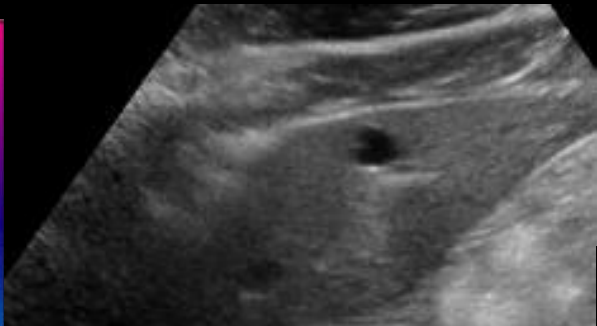
Cystické metastázy



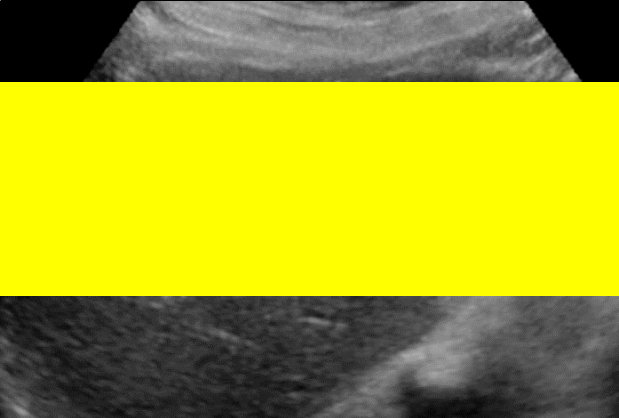
Na co se soustředit

Žena, ročník 54, v anamnéze ca prsu.

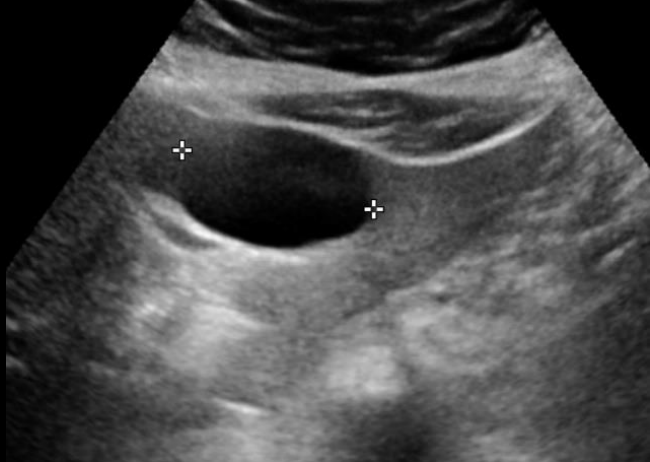
Cysta??



Cysta



2014



2016

Na co se soustředit

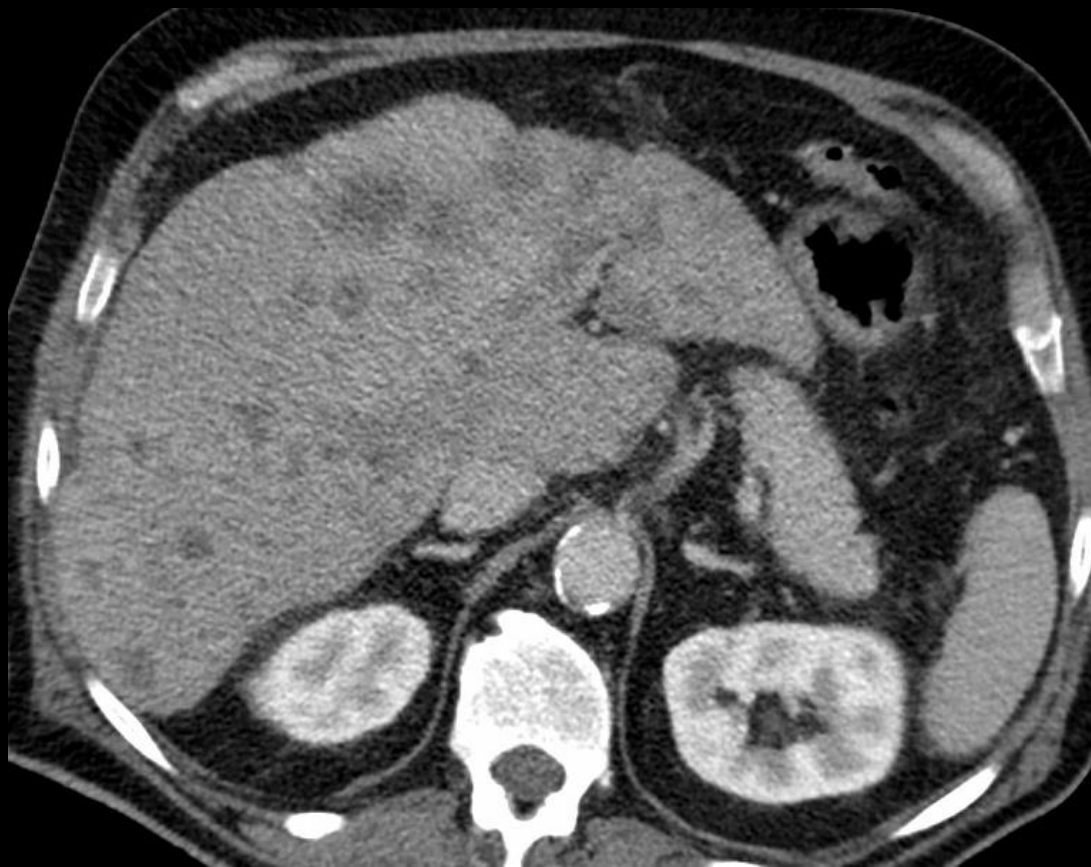
Muž, 1947, operace kolorektální ca

Játra - struktura

The background of the slide features four grayscale ultrasound images of liver tissue. The images are arranged in a 2x2 grid, with a central yellow banner. The top-left and bottom-left images show relatively homogeneous liver parenchyma. The top-right and bottom-right images show multiple small, dark, hypoechoic lesions, which are characteristic of liver metastases. A vertical color bar is visible on the far left side of the slide.

Metastázy

Játra - struktura



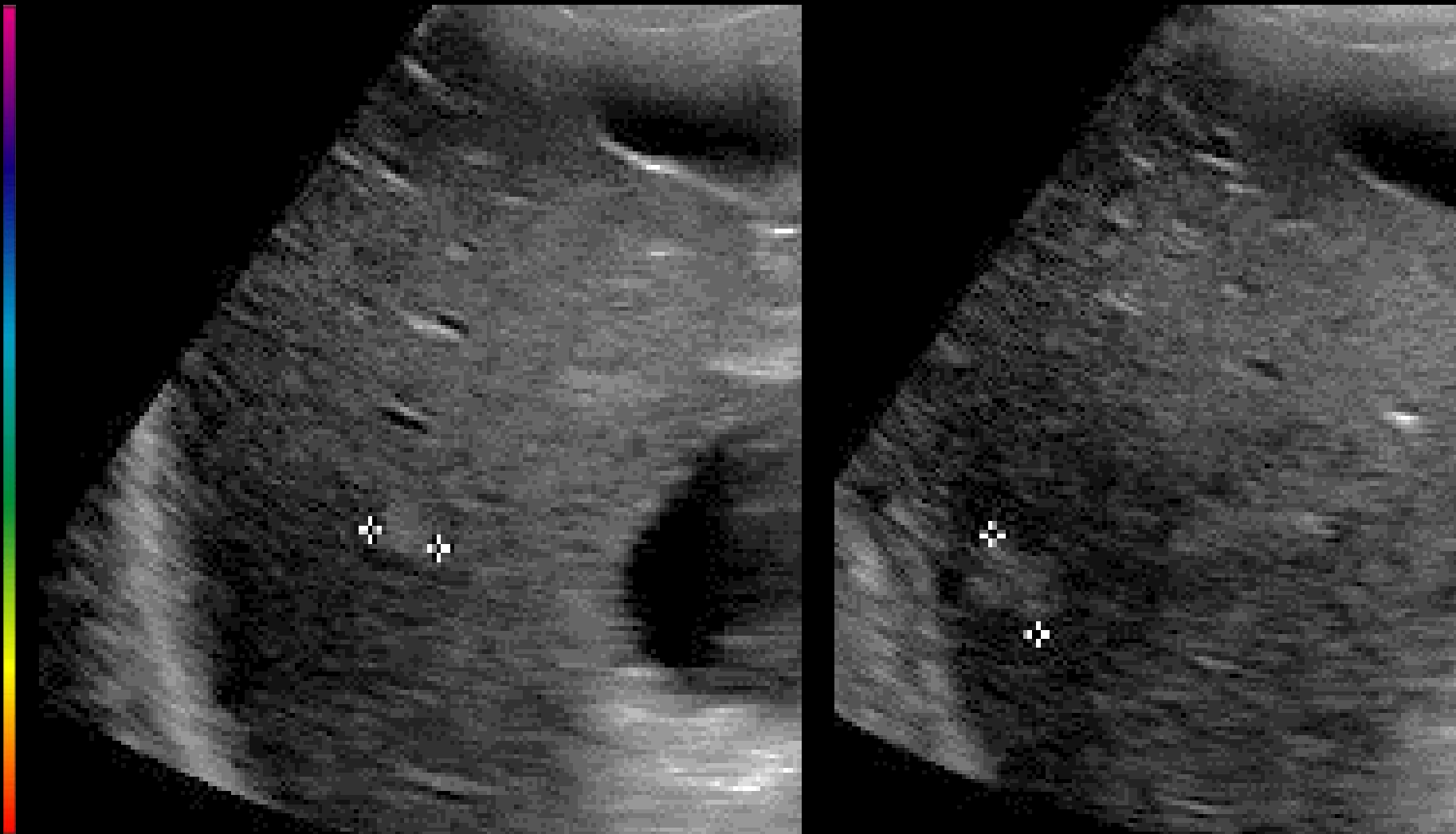
Na co se soustředit

Muž, 1948, operace kolorektální ca

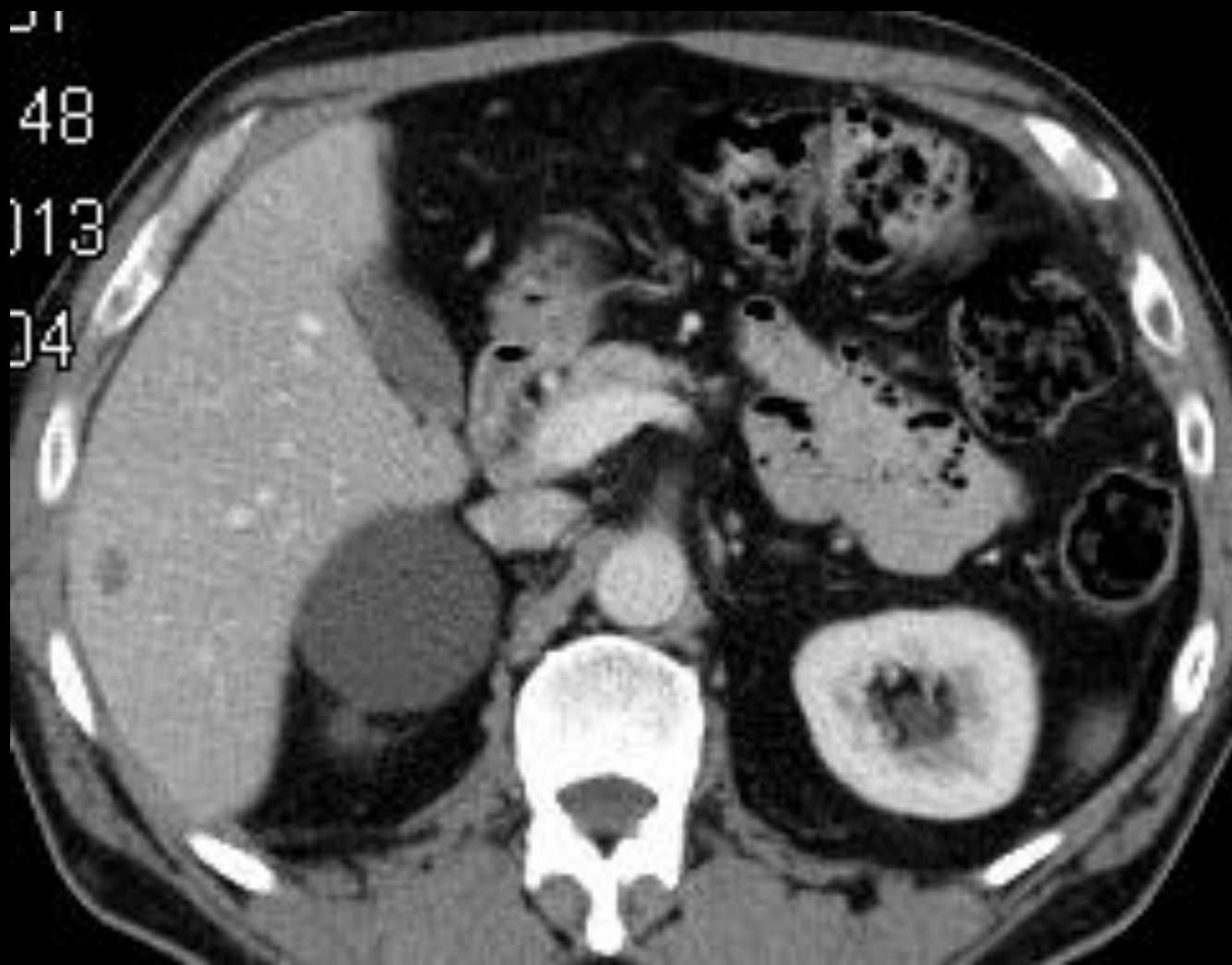
Hemangiom 9-12??



Hemangiom 2-13 ??



Hemangiom 3-13??



Hemangiom 10-13??

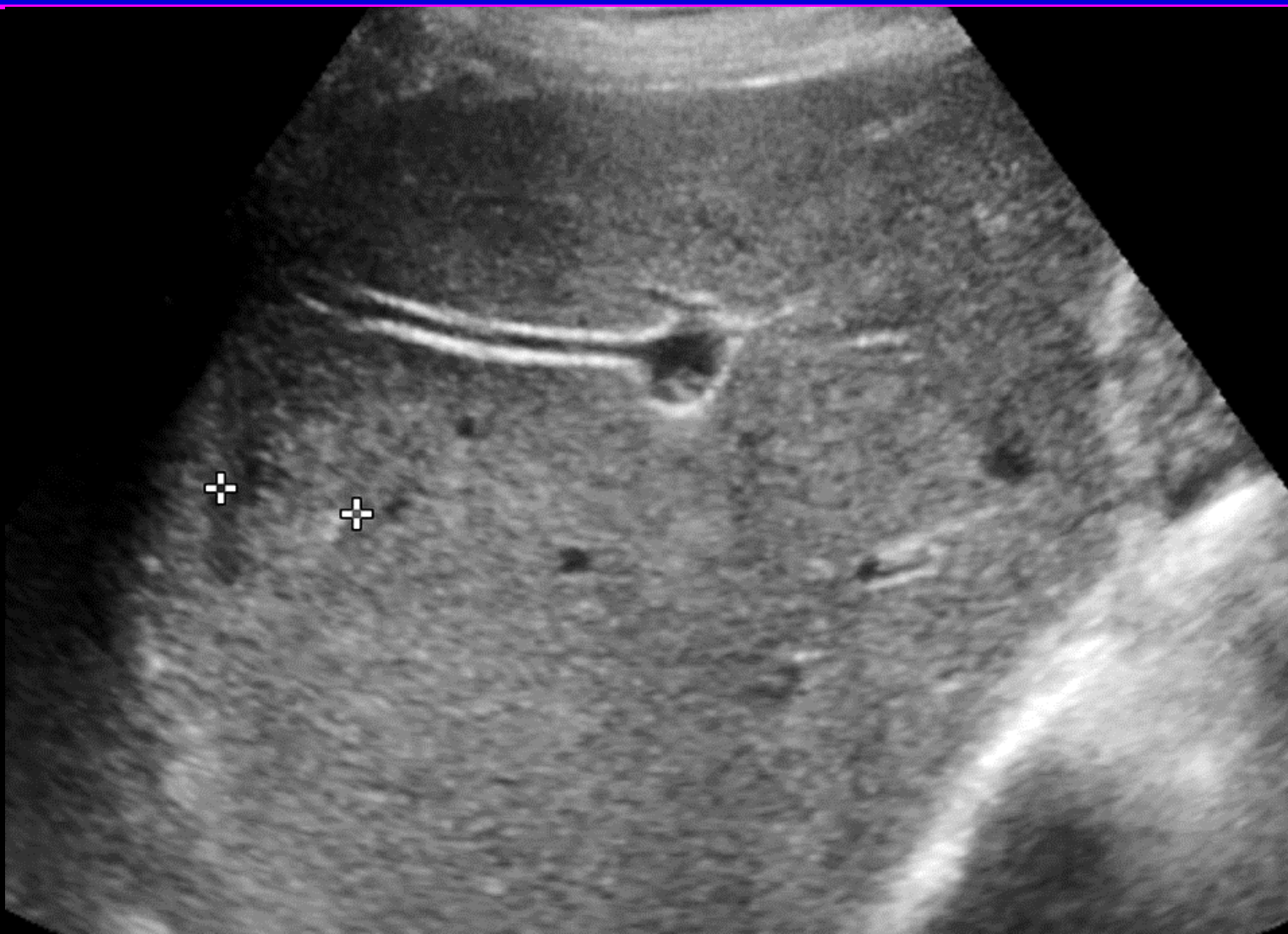
Metastáza



Na co se soustředit

Muž, náhodný nález

Benigní??



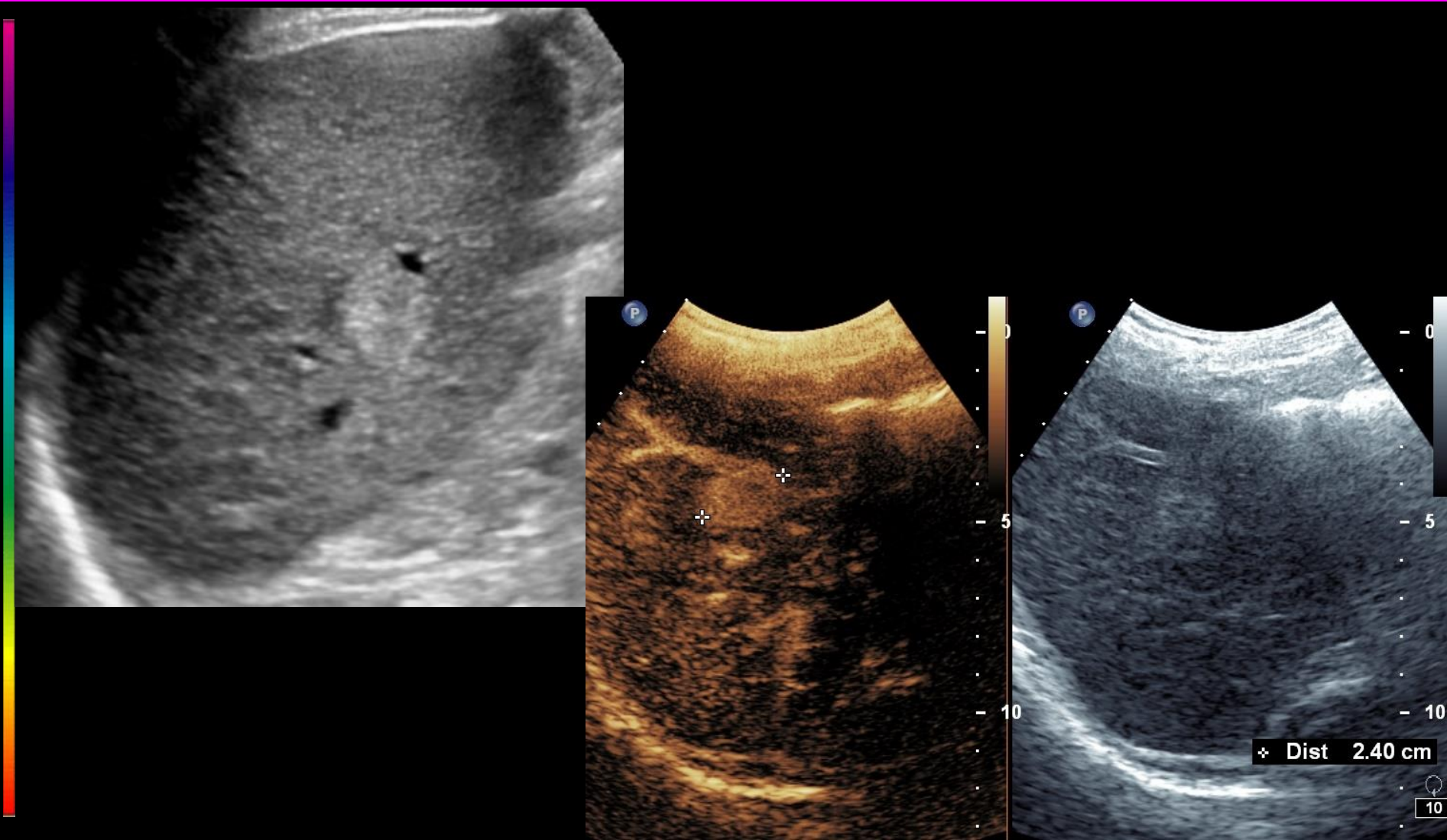
Benigní??

Metastáza

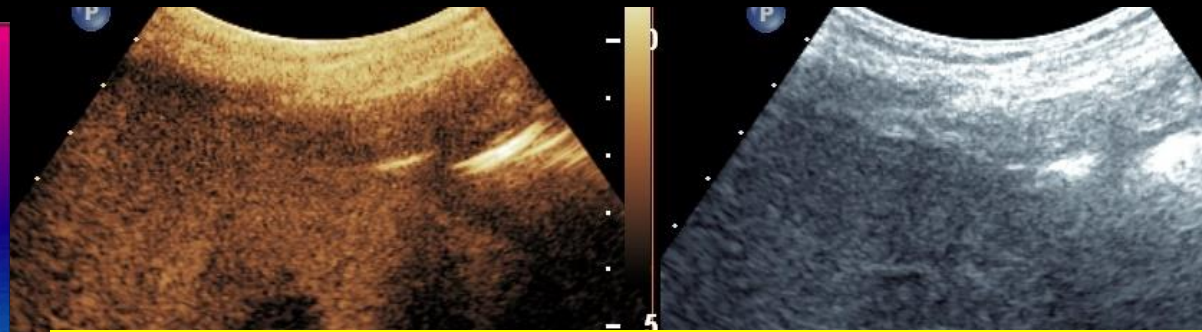
Na co se soustředit

Muž, kolorektální karcinom

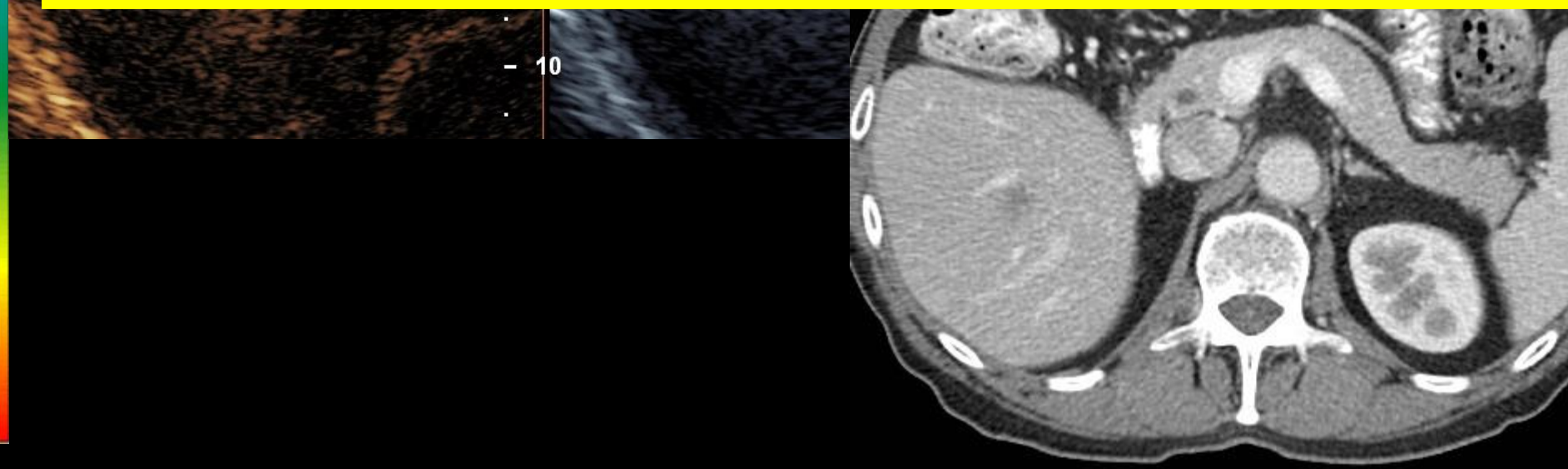
Benigní??



Benigní??



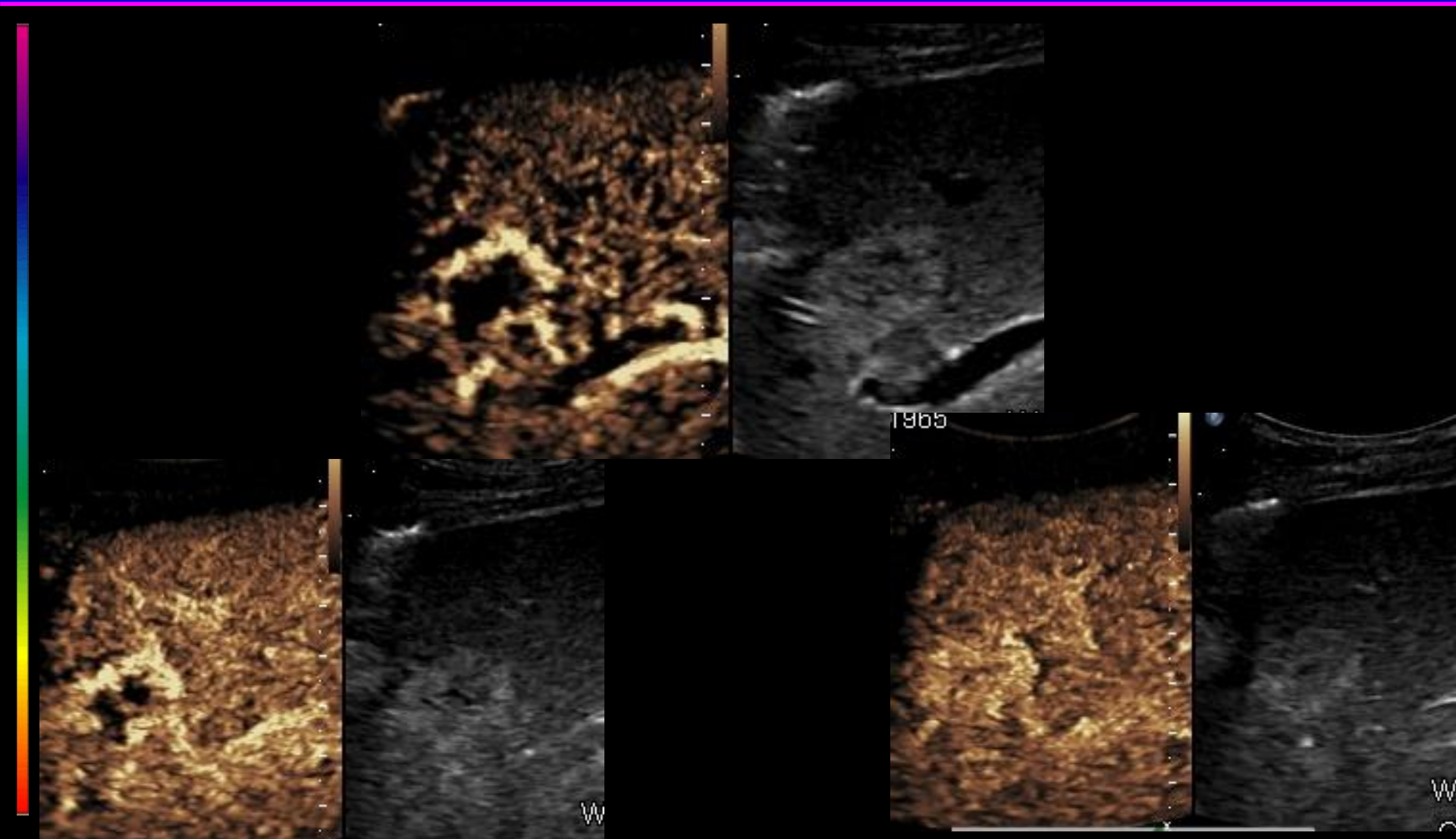
Metastáza



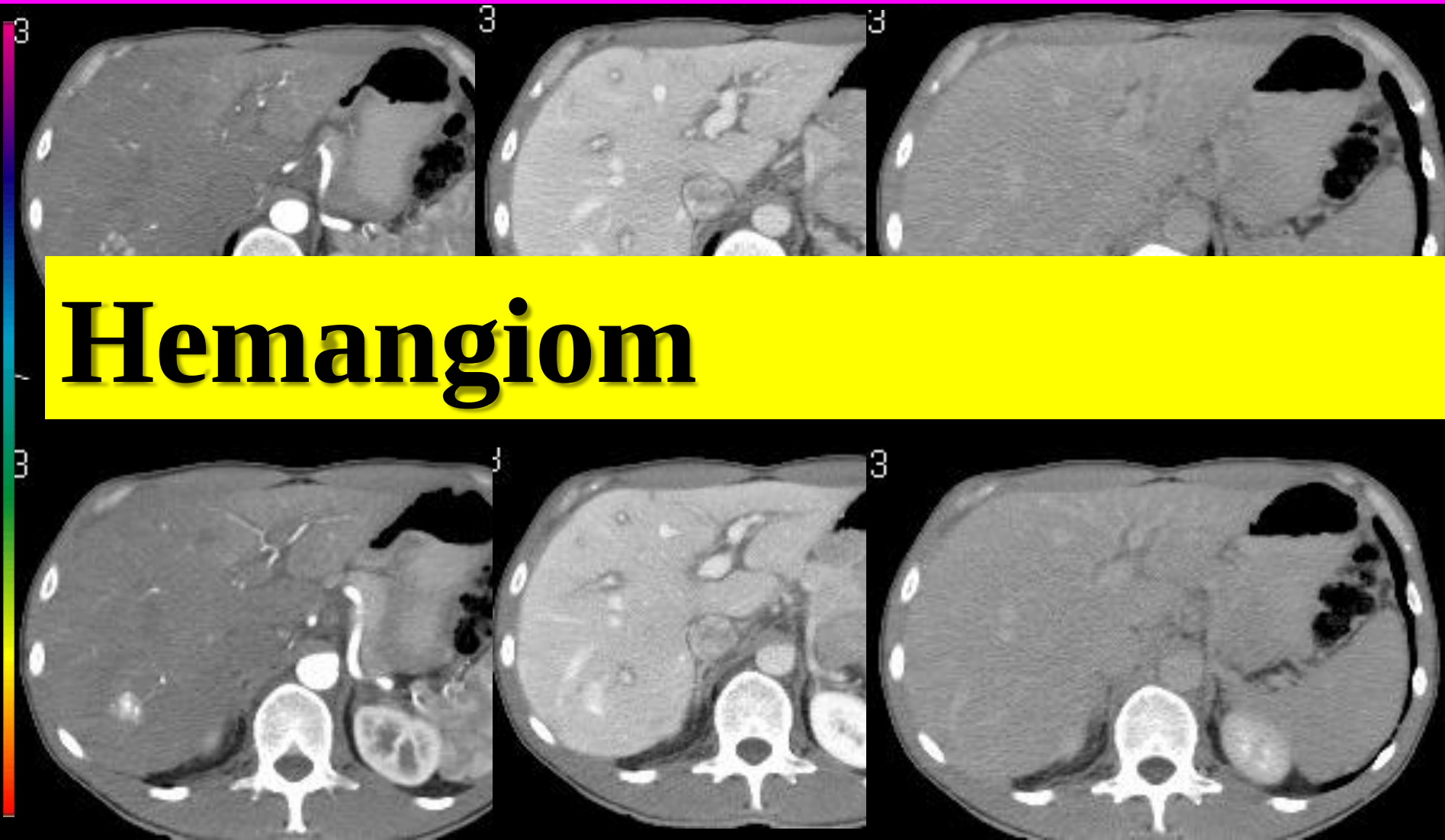
Na co se soustředit

Muž, 1965, jaterní selhávání

Hemangiom??



Hemangiom??



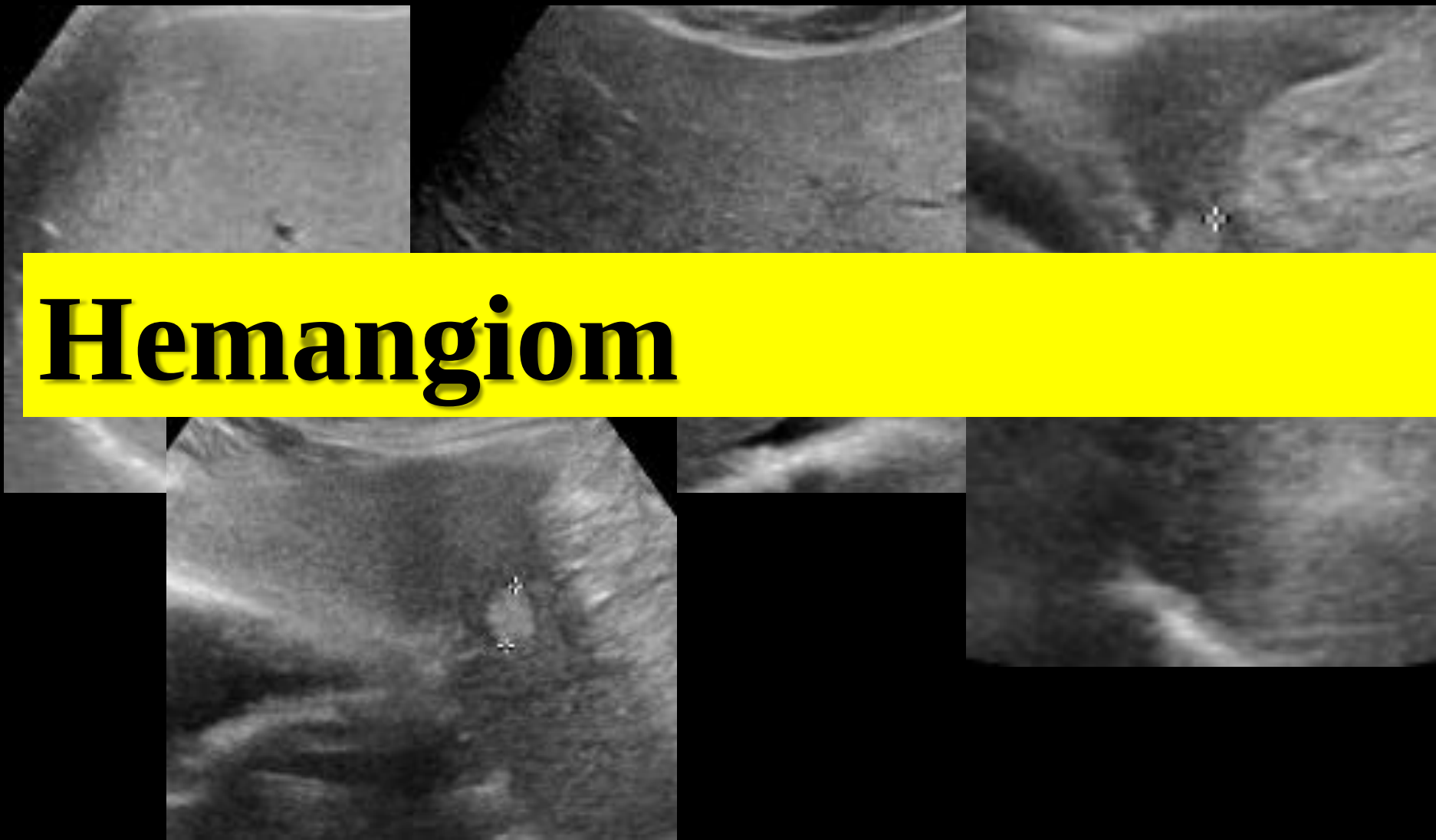
Na co se soustředit

Žena, 1959, bolesti břicha, nechutenství

Hemangiom??



Hemangiom??

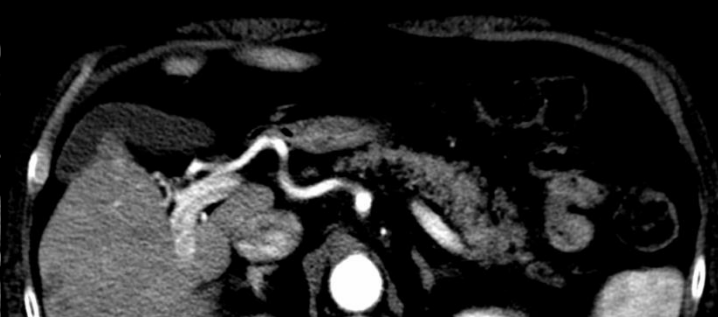
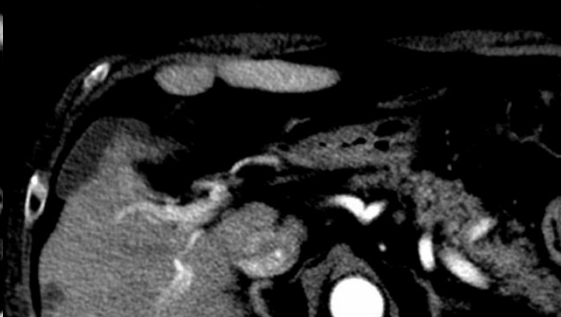
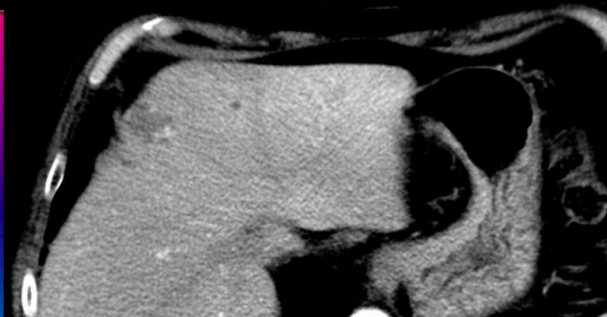


Hemangiom

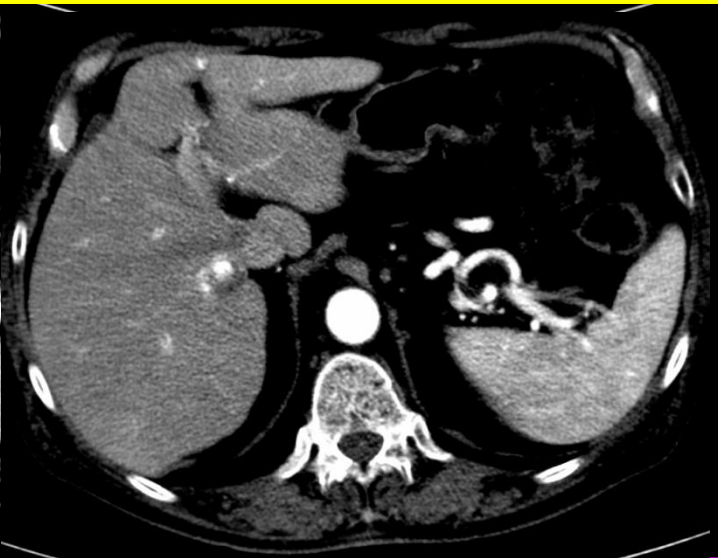
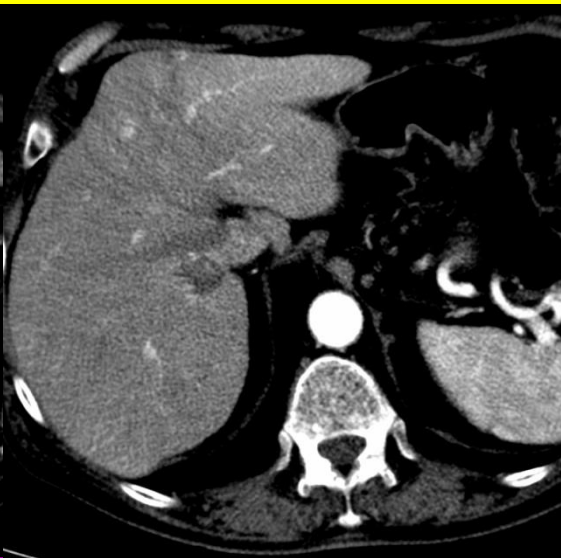
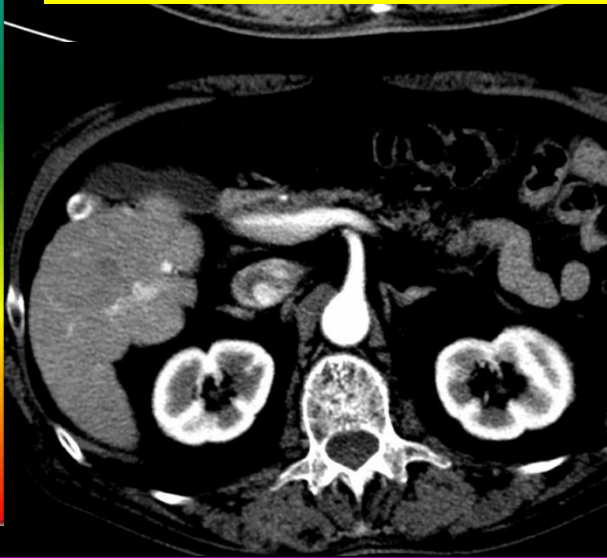
Hemangiom??



Hemangiom??



Hemangiom



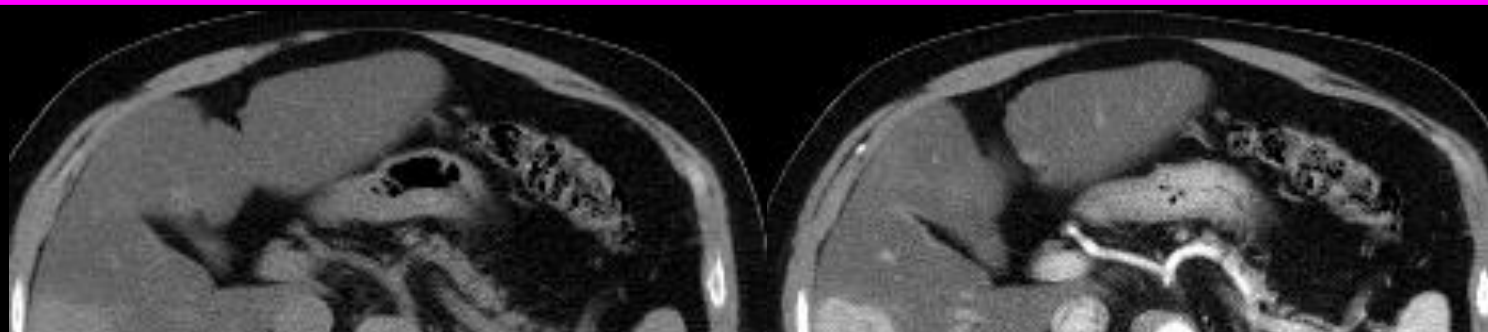
Na co se soustředit

Muž, 1954, hepatitis, AFP v normě

Hemangiom??



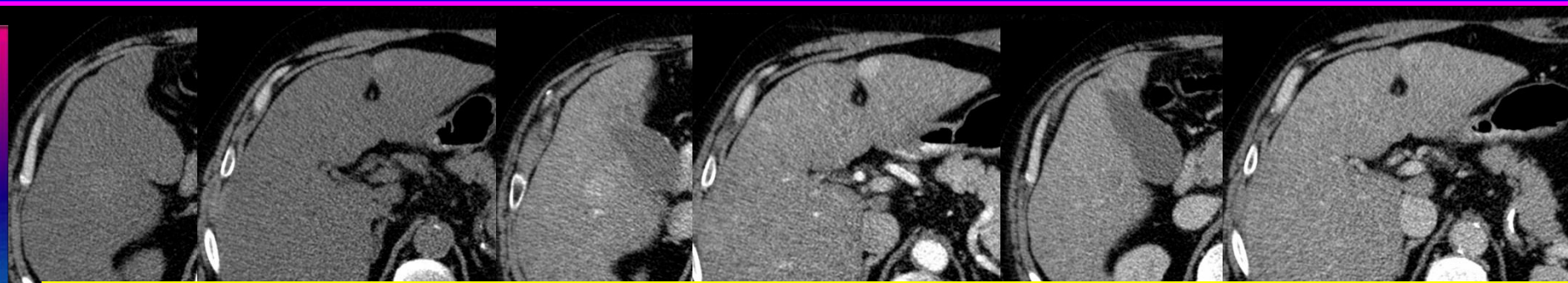
Hemangiom??



HCC



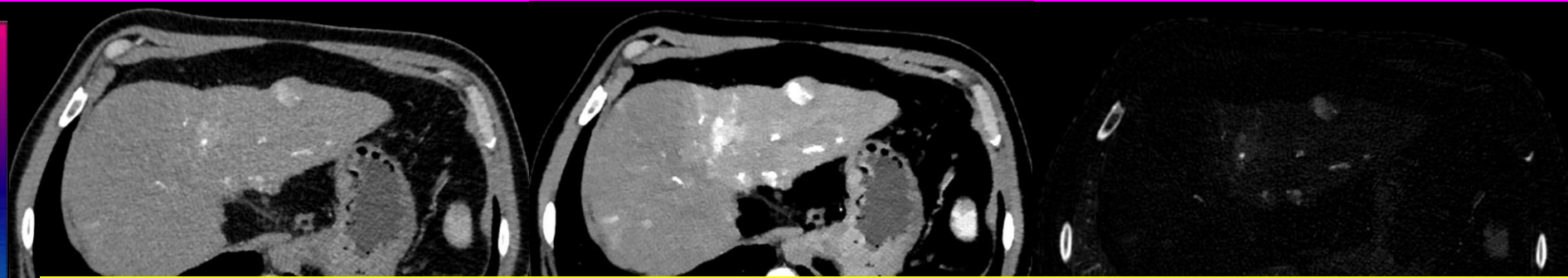
HCC??



HCC



HCC??



HCC



konvenční CT

45 keV

jodové mapy

**Děkuji za
pozornost**