

UZ – chyby a omyly

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Na co se soustředit

- **Anatomická lokalizace – co tam vlastně je za struktury?**
- **Měl někdy nemocný nějaké vyšetření**
- **Klinika (bolest, akutní projevy, ikterus)**

Na co se soustředit

- **Laboratoř (AST, ALT, GMT, Bili, markery, FW)**
- **Echogenita někdy mate – je nutné porovnávat echogenitu jater, ledviny a ložiska**

Na co se soustředit

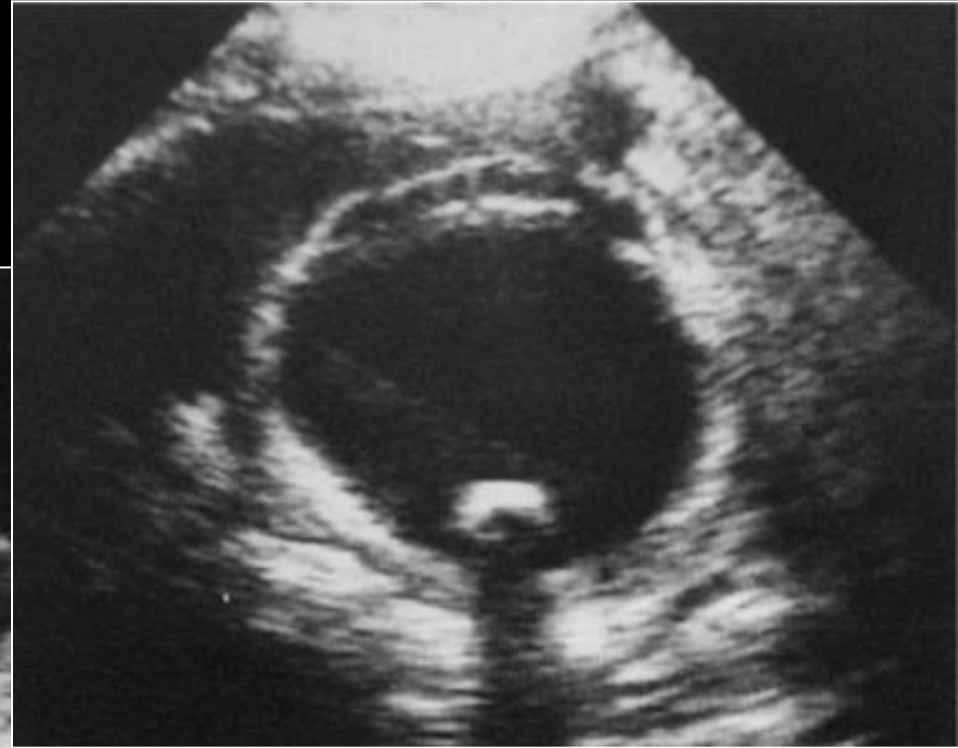
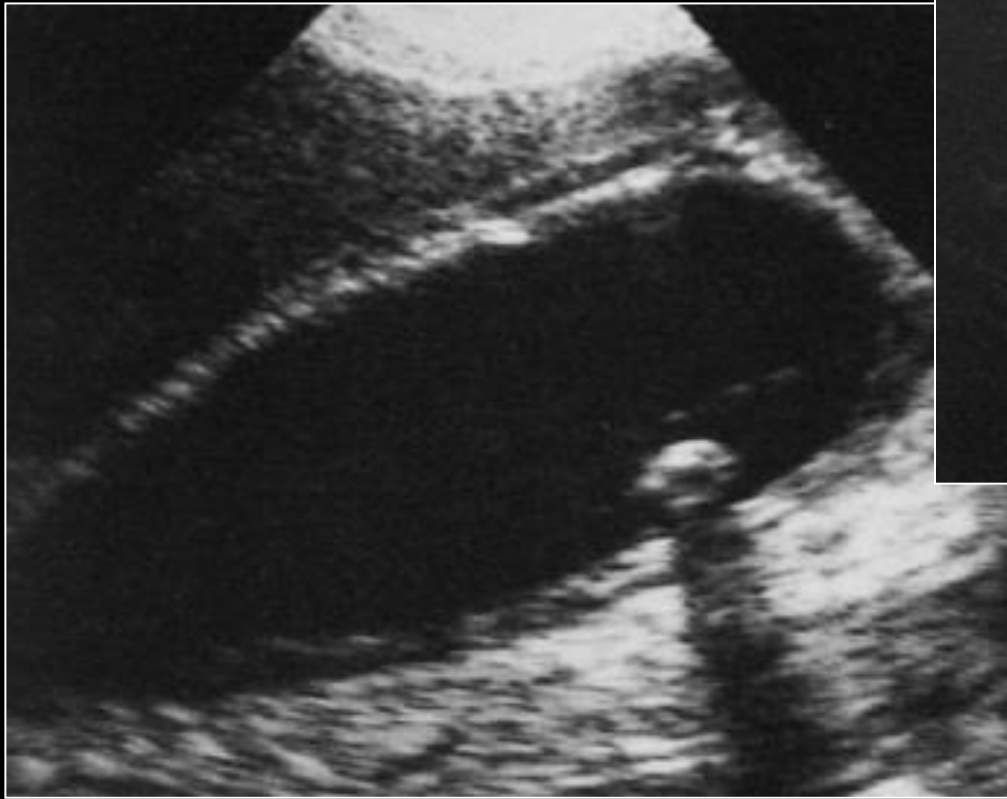
- Běžná choroba je podstatněji častější než choroba vzácná (hemangiom x hemangiopericytom)
- Častěji vidíme atypický obraz typického nálezu než typický obraz vzácné choroby

Kámen ve žlučníku

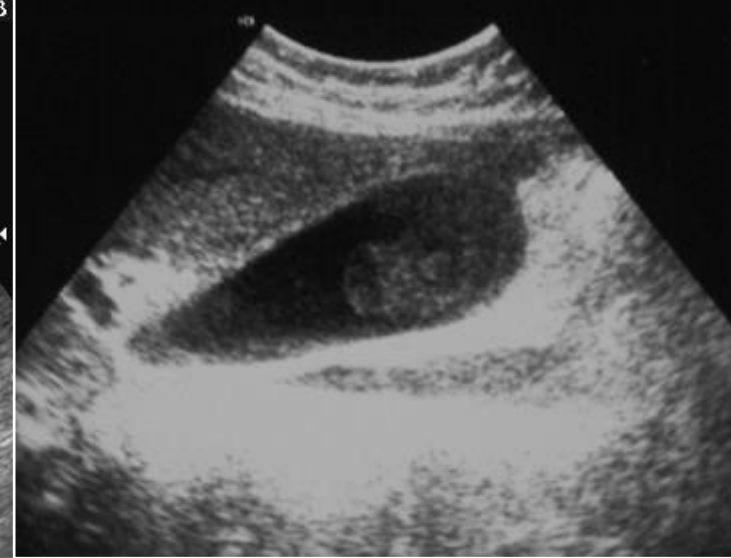
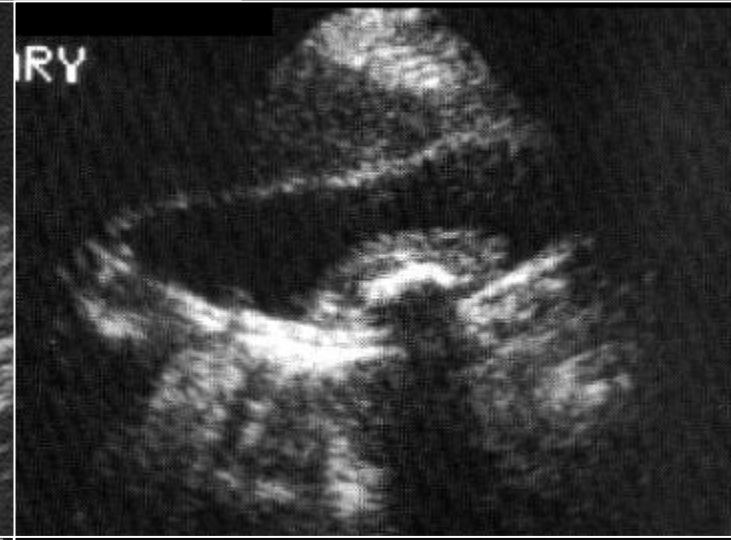
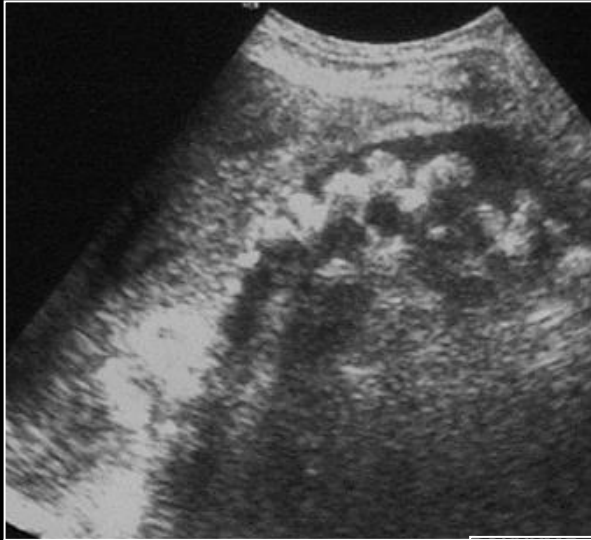
Kdy je to kámen

- Pohybuje se – zkus to
- Na CT není vidět – věř ultrazvuku
- Stín
- Cholesterolový kámen je někdy velmi malý a nehýbe se
- **Polypy jsou vzácné.**

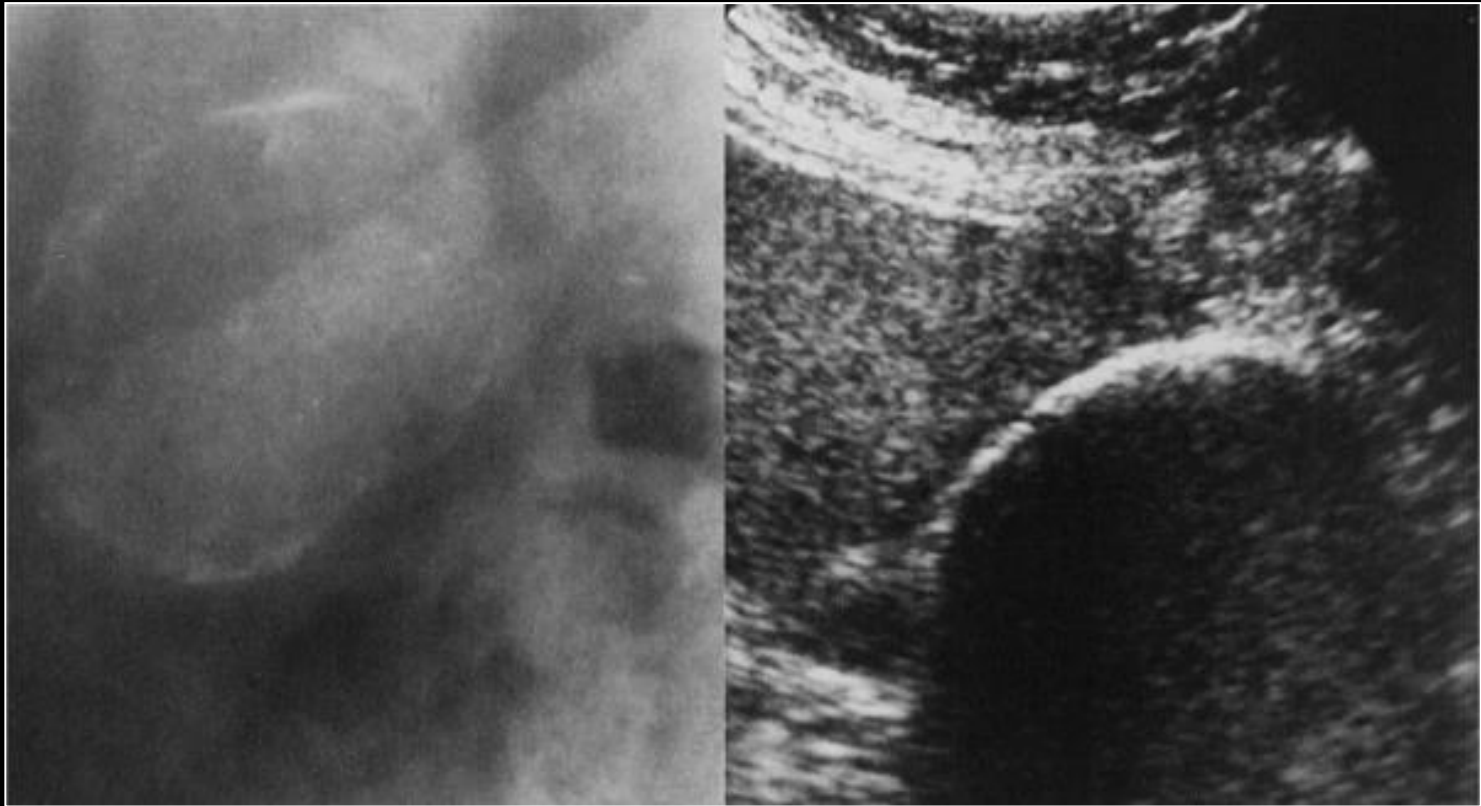
Cholecystolitiáza



Cholecystolitiáza



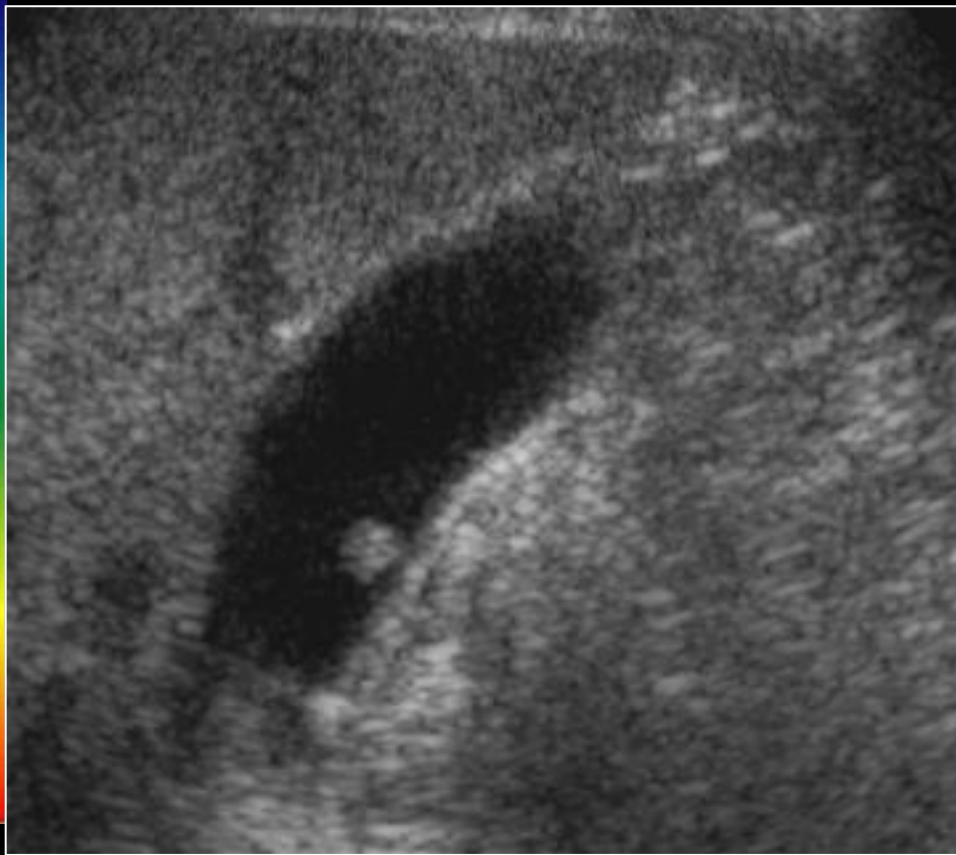
Cholecystolitiáza



Cholesterolový kámen



Cholesterolový kámen

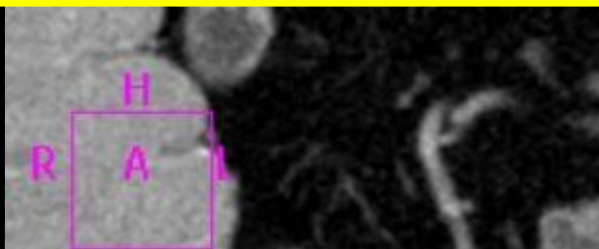


Na co se soustředit

ky

Operace

Na sále - litiáza

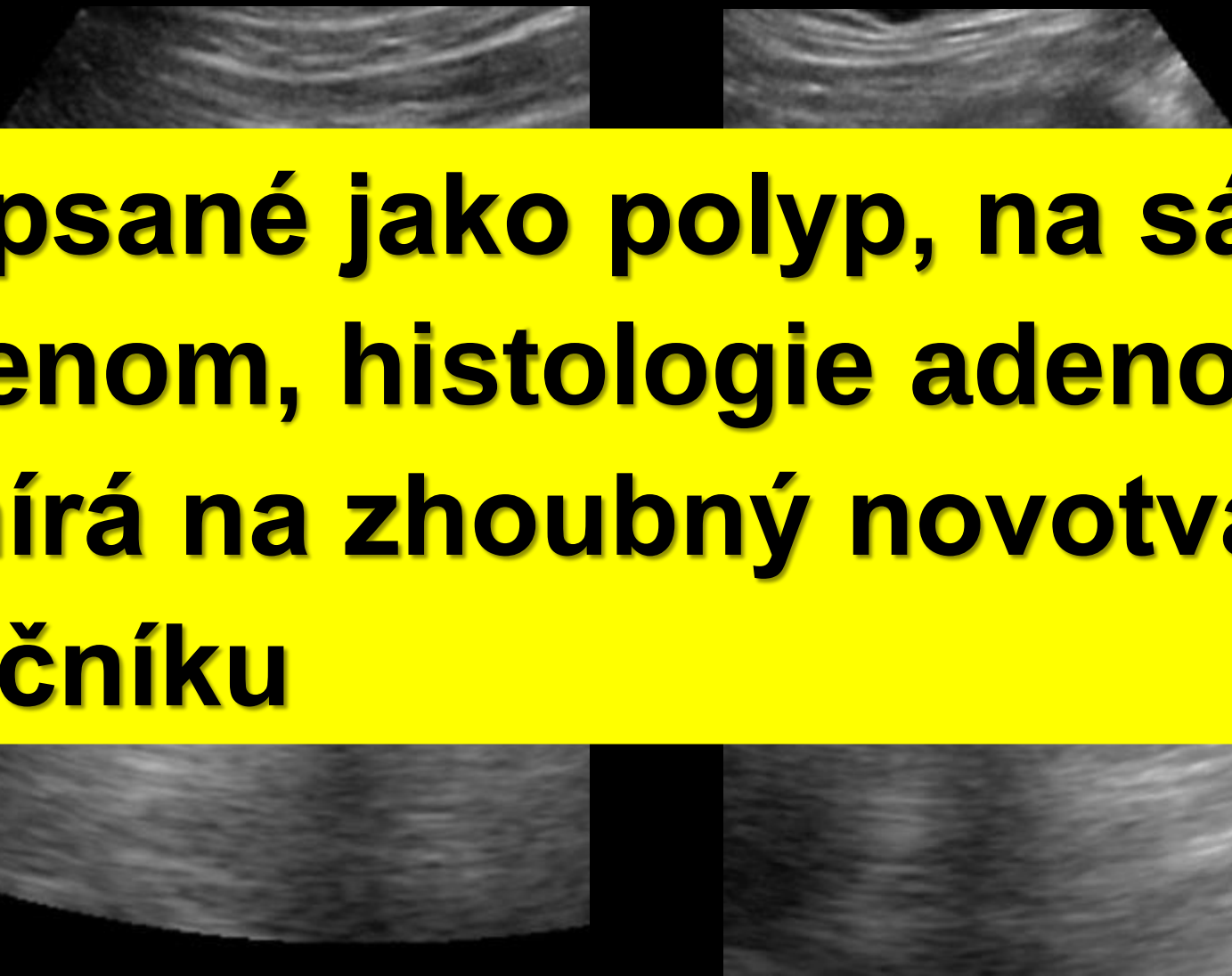


Na co se soustředit

I

**Popis tumor, zánět, kameny
– histologie chronická zánět
žlučníku**

Na co se soustředit



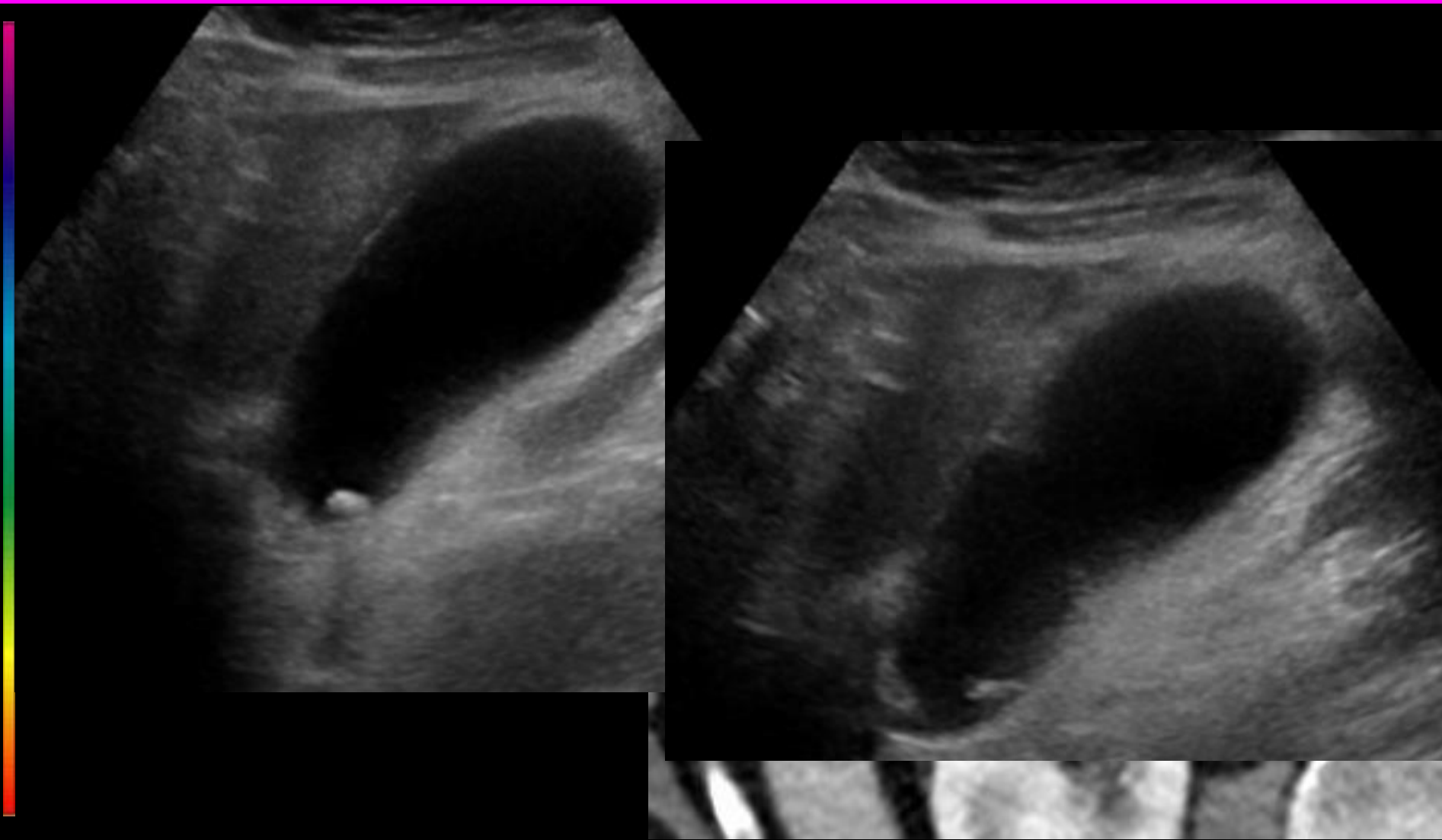
**Popsané jako polyp, na sále
adenom, histologie adenom,
umírá na zhoubný novotvar
žlučníku**

Zánět žlučníku

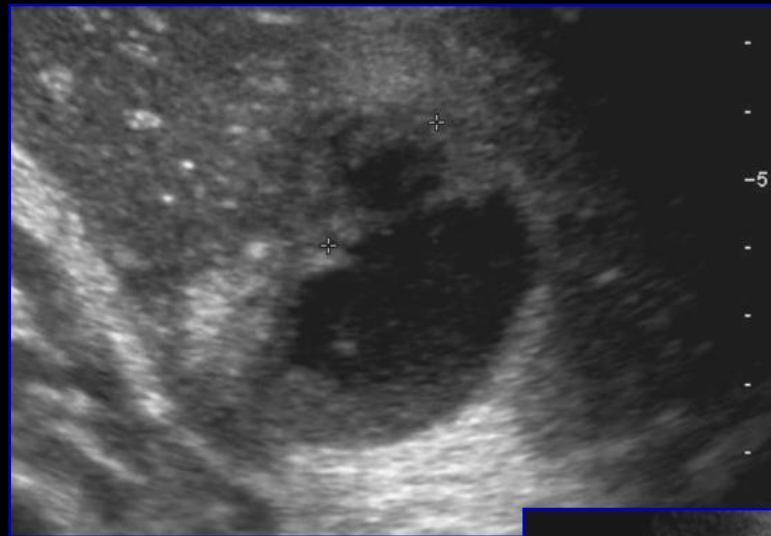
Na co se soustředit

- Rozšíření stěny $>3\text{mm}$
- Litiáza
- Stěna vrstvená se zvýšenou perfúzí
- Pozitivní Murphyho příznak
- Absces, zánětlivé prosáknutá tuku, tekutina
- **Nikdy není infiltrace jater, pozor na chronický zánět!!!**

Kámen

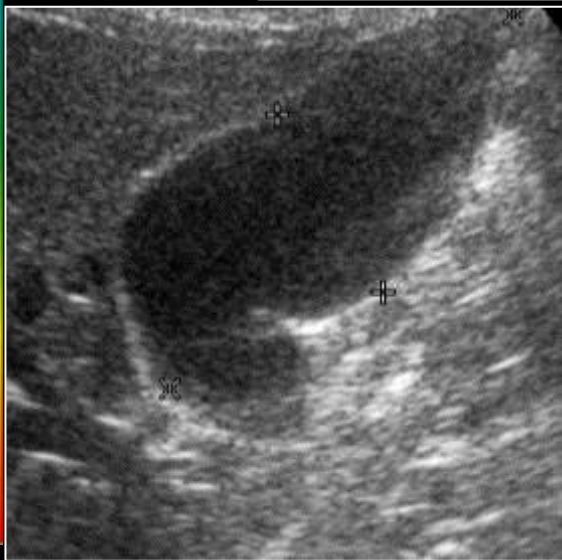
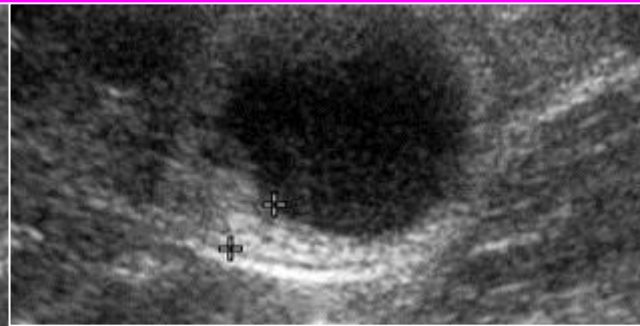


Akutní cholecystitida

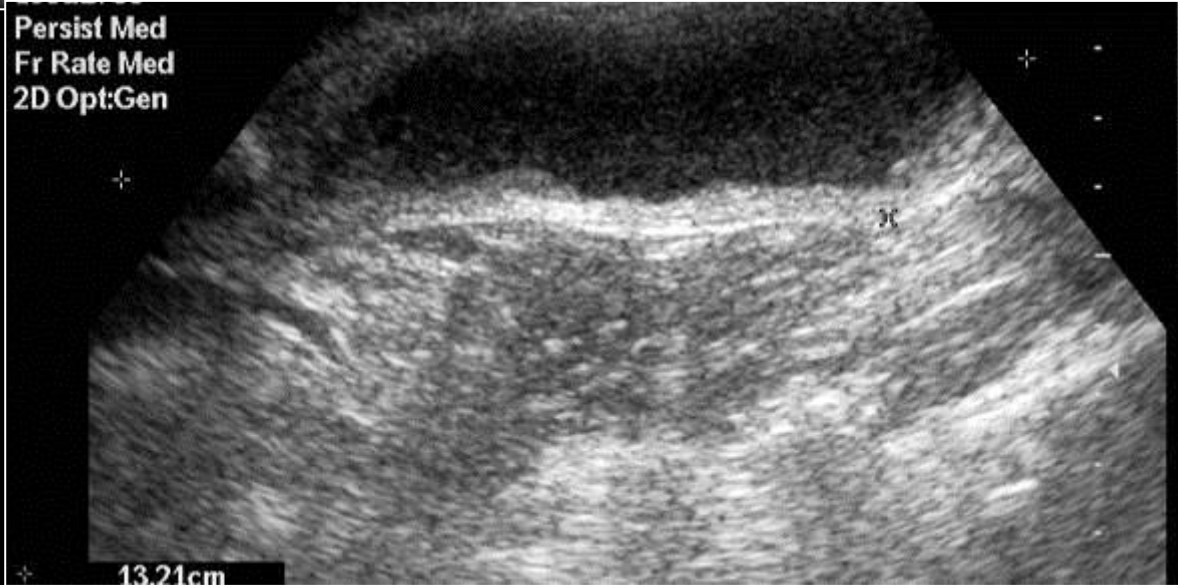


Cholecystitis

Persist Med
Fr Rate Med
2D Opt:Gen

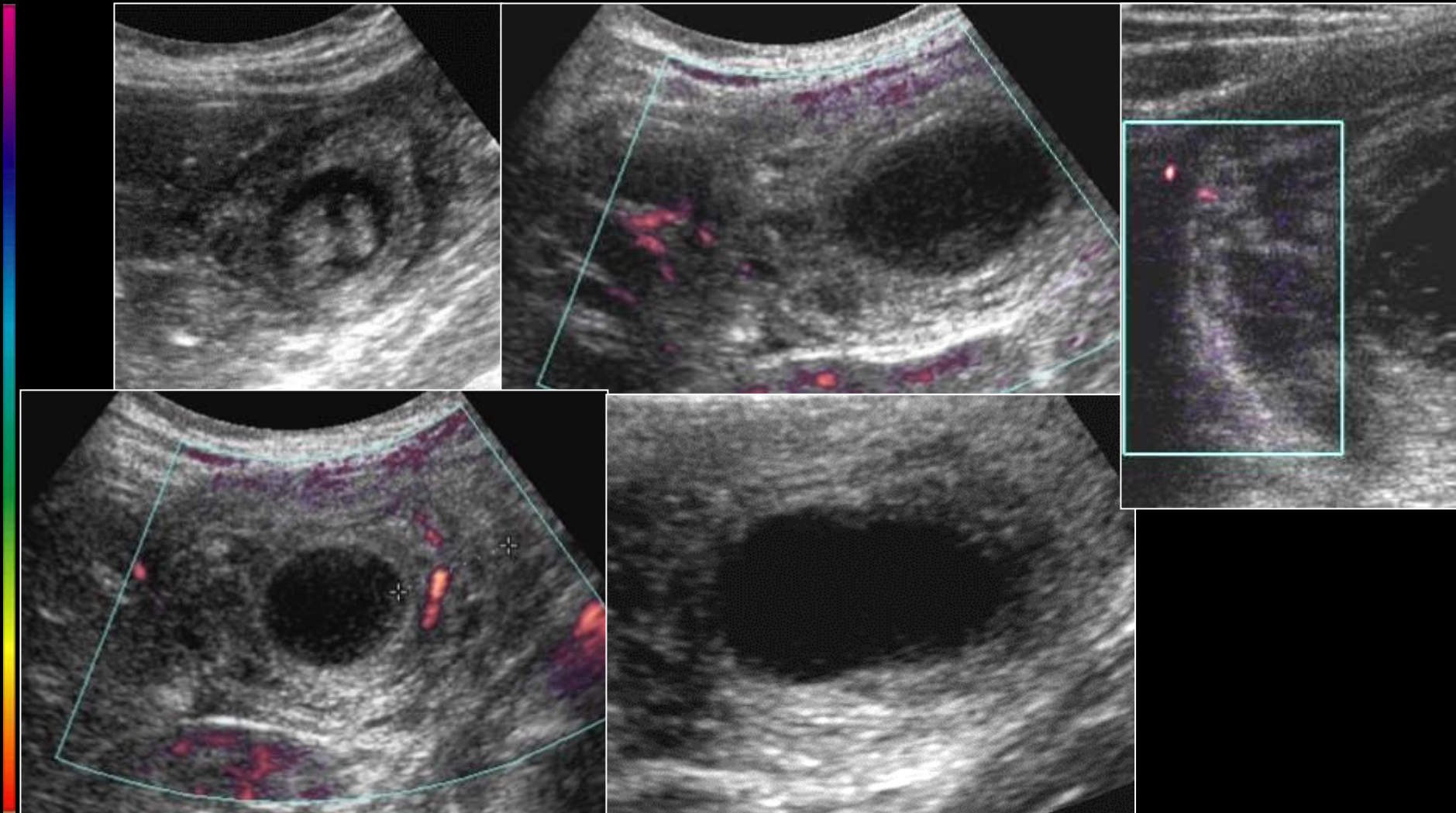


Persist Med
Fr Rate Med
2D Opt:Gen



13.21cm

Cholecystitis



Na co se soustředit

Žena.

**Gangréna žlučníku –
nakonec akutní operace**

✦ Dist 0.450 cm

Na co se soustředit

**Gangréna žlučníku –
nakonec akutní operace**



Žlučník



Žlučník



Zánět

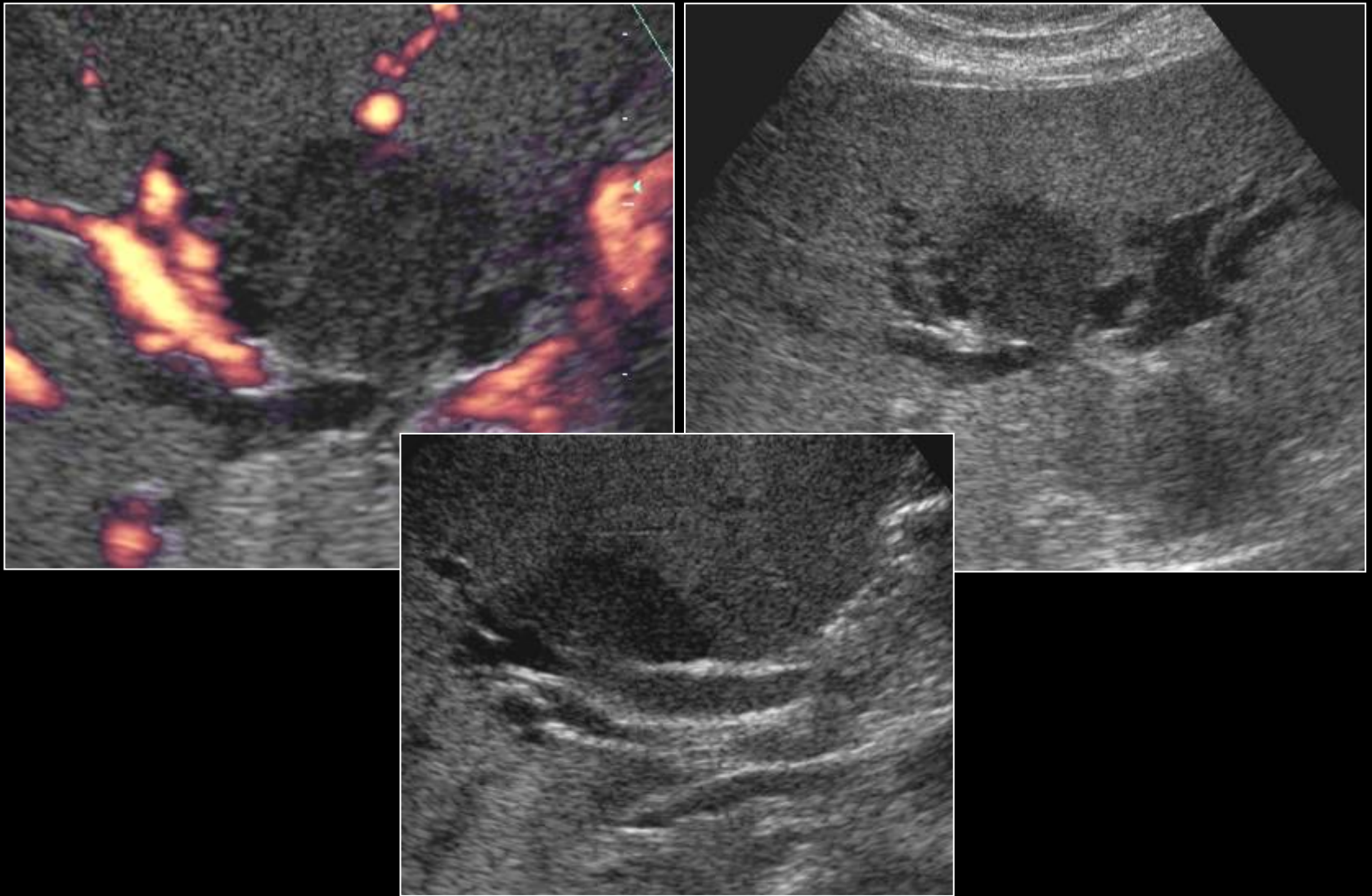


Nádor žlučových cest

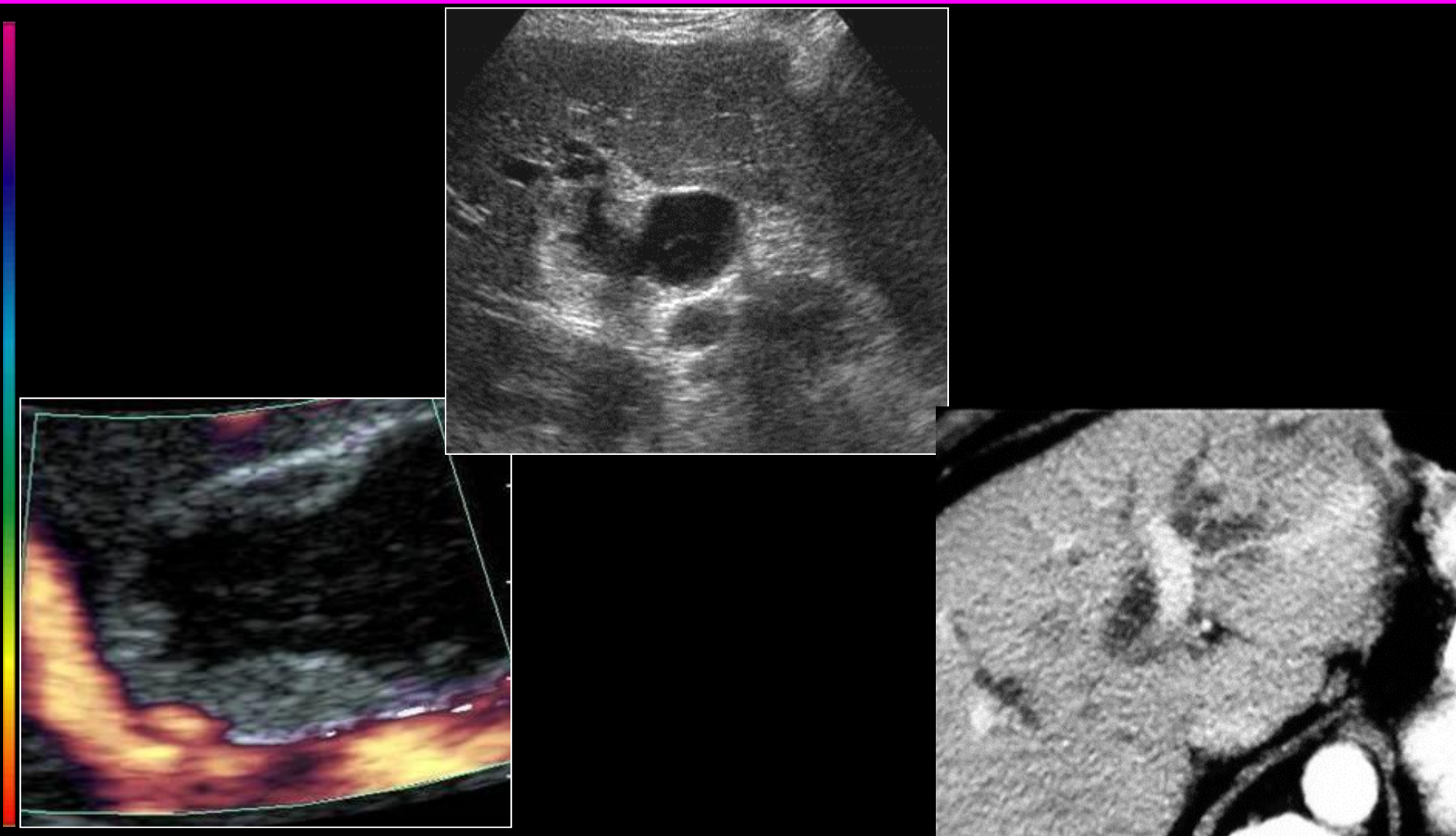
Na co se soustředit

- **Dilatace žlučových cest, bezbolestný ikterus**
- **Nejsou známky zánětu (klinika, laboratoř)**
- **Není litiáza**
- **Zesílení stěny žlučových cest, infiltrát**

Cholangiocarcinoma, dilatace žlučových vodů



Cholangiocarcinoma, dilatace žlučových vodů



Na co se soustředit

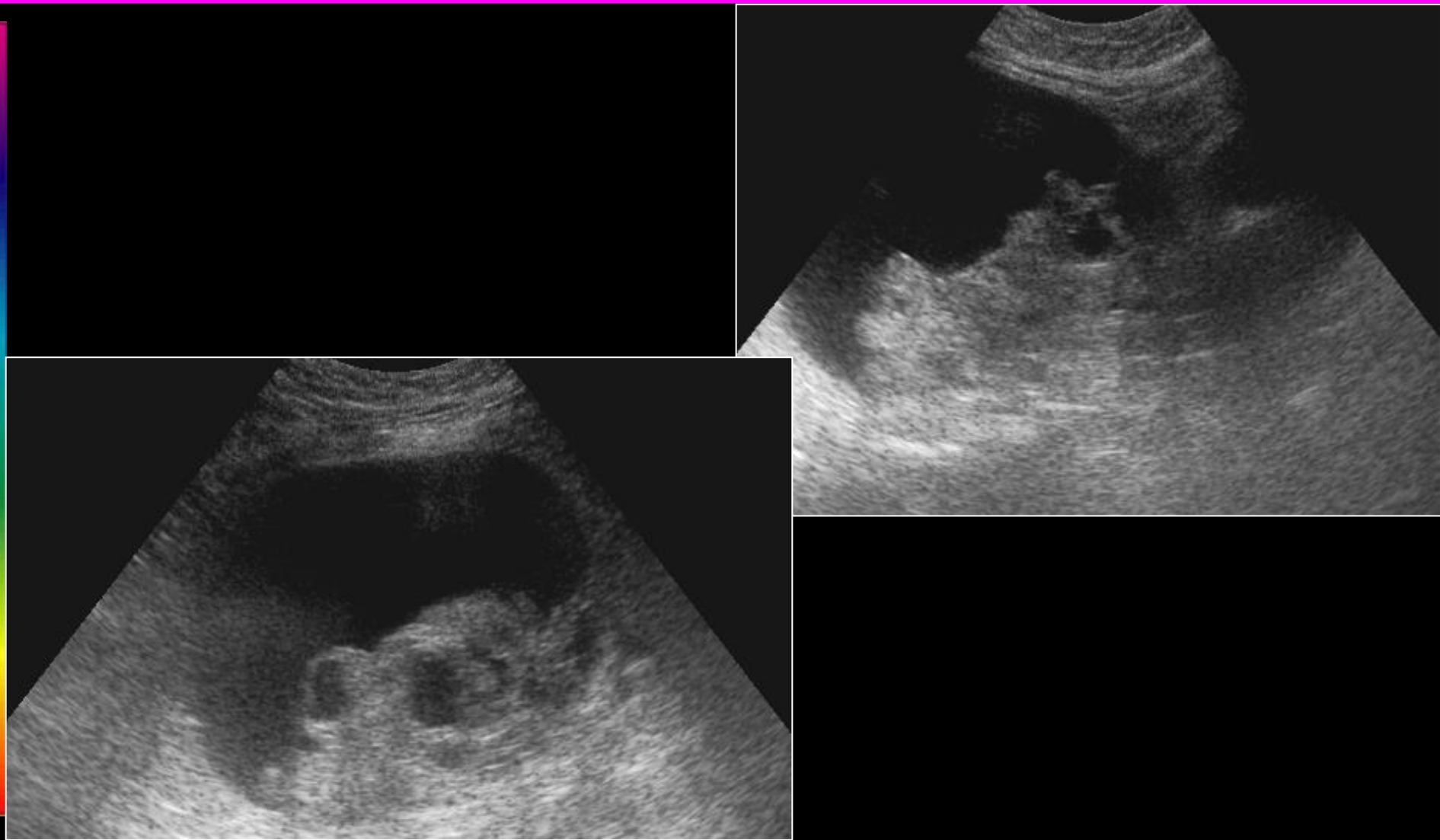
**Cholangiocarcinoma, náhodný nález
hemangiomu**

Nádor žluččníku

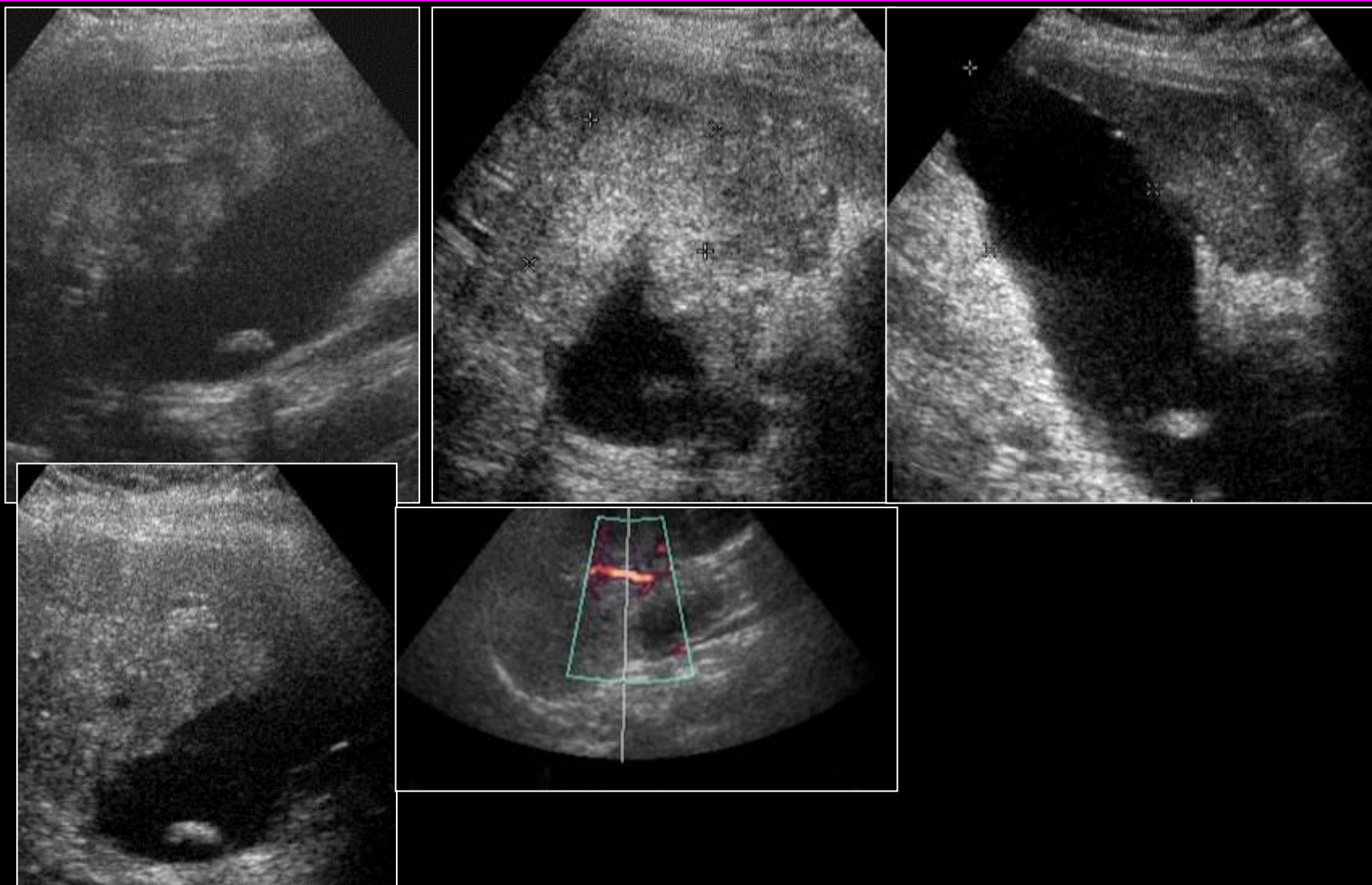
Na co se soustředit

- **Starší pacienti**
- **Není vidět stěna – její vrstvy**
- **Může být litiáza**
- **Infiltrace okolí (jater)**
- **Vaskularizace (CEUS)**
- **Bolest, tlaky spíše dlouhodobé než akutní**

Tumor žlučníku



Karcinom žlučníku



Na co se soustředit

IMT

**Tumor žlučníku, infiltrace
jater**

Na co se soustředit

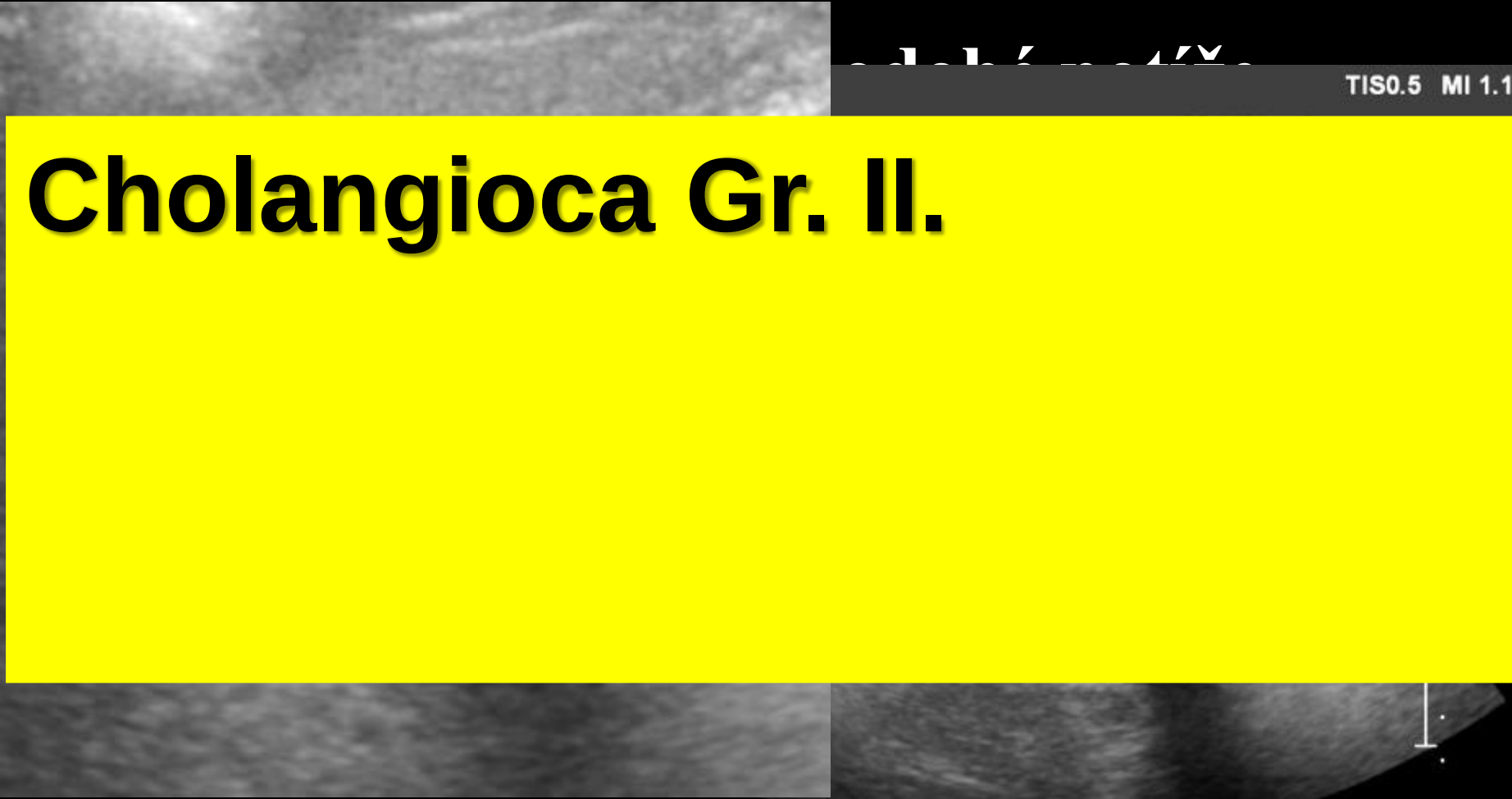
ti, laboratoř v normě,

**Popsané jako tumor,
verifikované na sále,
Histologie jako adenoca**

Na co se soustředit

Tumor

Na co se soustředit



Cholangioca Gr. II.

The image is a medical ultrasound scan of a gallbladder. A large yellow rectangular area highlights a portion of the gallbladder wall. The text 'Cholangioca Gr. II.' is overlaid on this yellow area. In the top right corner of the ultrasound image, the text 'TIS0.5 MI 1.1' is visible. In the bottom right corner, the number '14' is displayed. A vertical color calibration bar is on the left side of the image.

TIS0.5 MI 1.1

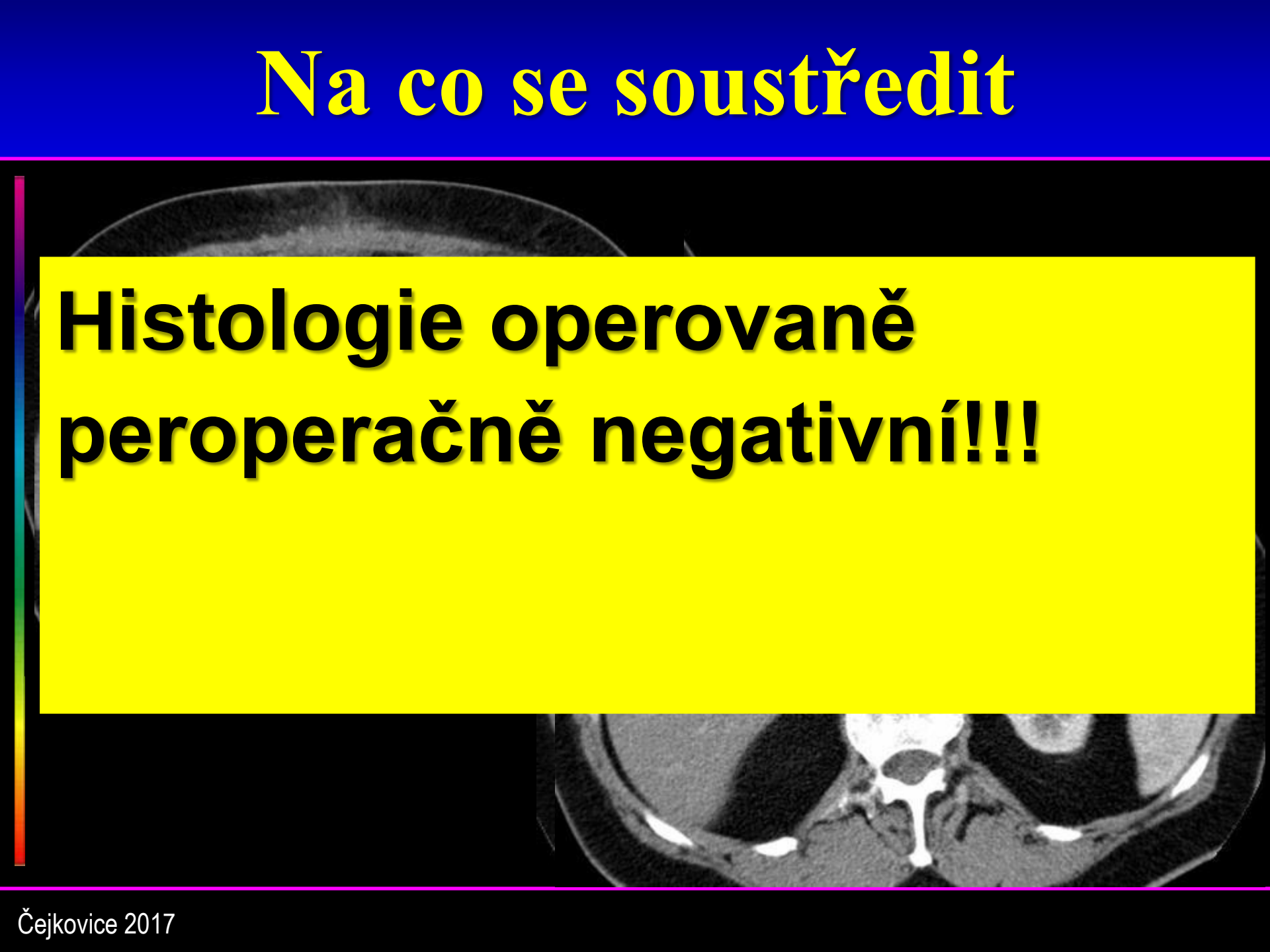
14

Na co se soustředit

Cholangioca (žlučník) Gr. II

12 cm

Na co se soustředit

The background of the slide is a grayscale CT scan of a human torso, showing cross-sections of the spine and surrounding tissues. A large yellow rectangular box is centered on the slide, containing the main text.

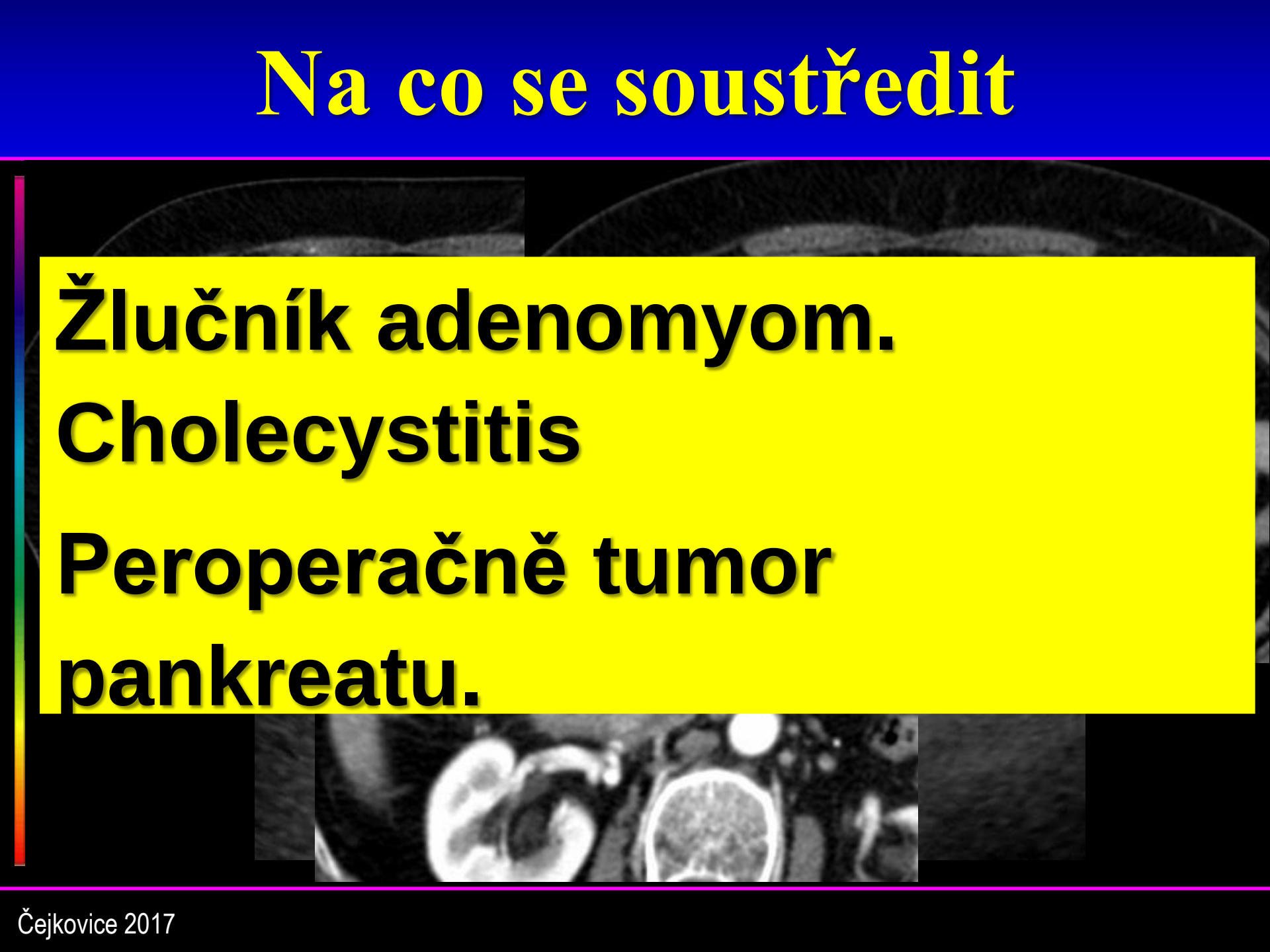
**Histologie operovaně
peroperačně negativní!!!**

Na co se soustředit

Žlučník, kámen.

**Peroperačně tumor
pankreatu a metastázy v
játrech**

Na co se soustředit

The background of the slide features a medical scan, likely a CT or MRI, showing a cross-section of the abdomen. The scan is partially obscured by a large yellow text box. The text box contains the following text:

**Žlučník adenomyom.
Cholecystitis
Peroperačně tumor
pankreatu.**

Na co se soustředit

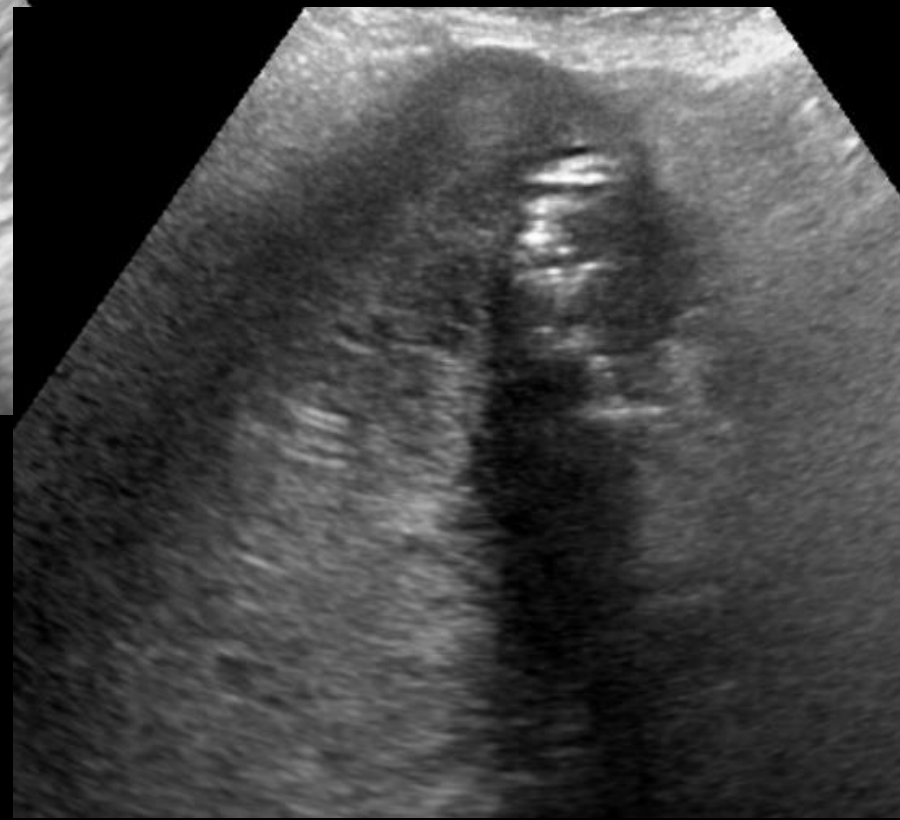
Mu

ku,

Kámen

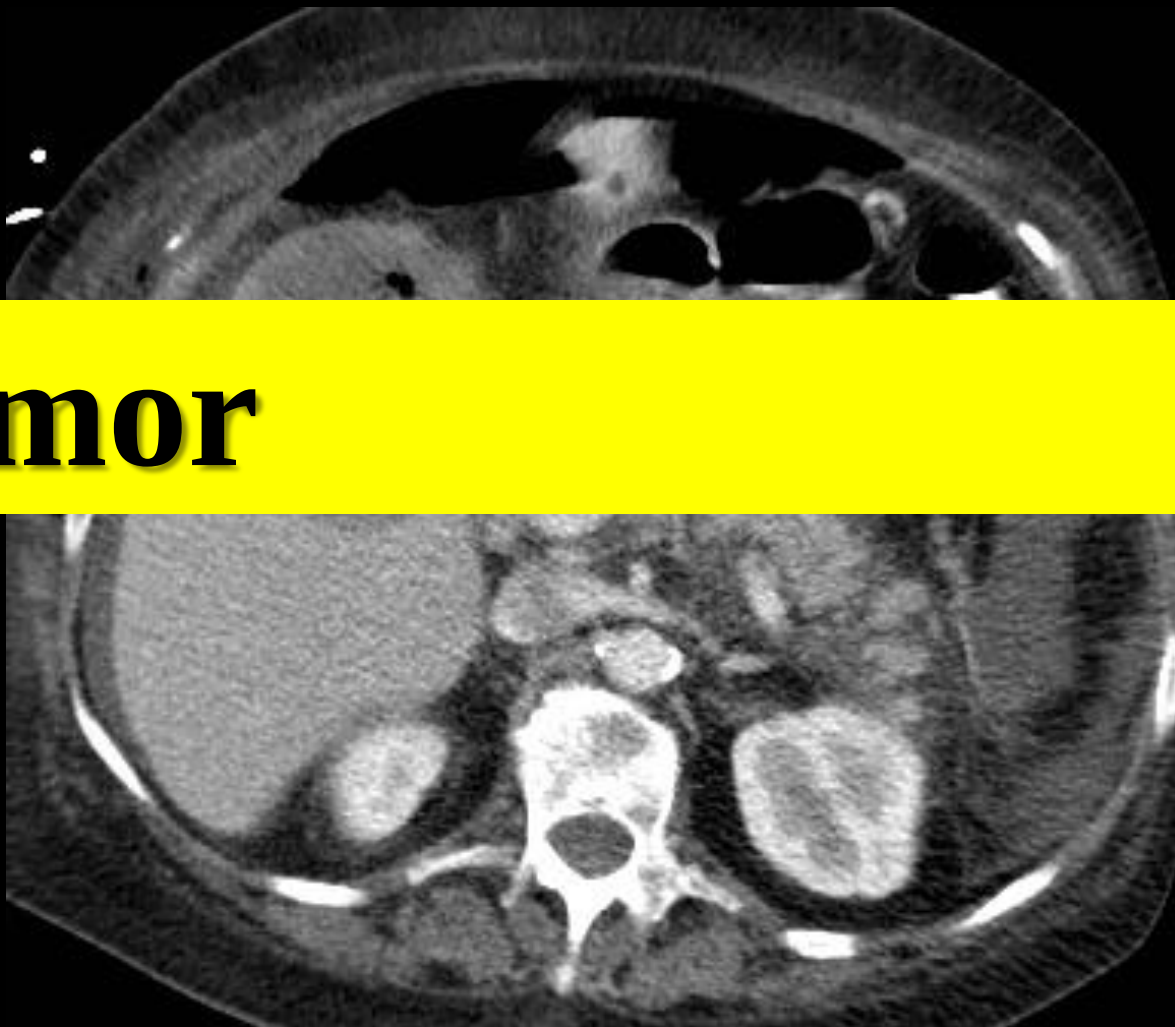
**Nemocný s morbus Crohn
Sklerozující cholangitis a
chronická zánět žlučníku**

Žlučník



Žlučník

Tumor



Játra - ložiska

Na co se soustředit

- **Echogenita (hemagiom, cysta, FNH)**
- **Věk (mladí – hemangiom)**
- **Pohlaví (mladé ženy FNH, adenom)**
- **Známý tumor (pokud nemocný nemá tumor, je riziko, že se jedná o metastázu minimální)**
- **Cirhóza, hepatitida**

Benigní x maligní

FNH



Benigní x maligní

**Hepatocellulární adenom, z
biopsie – hepatocelulární
adenom s výraznou
steatozou**

Benigní x maligní

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



Benigní x maligní



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

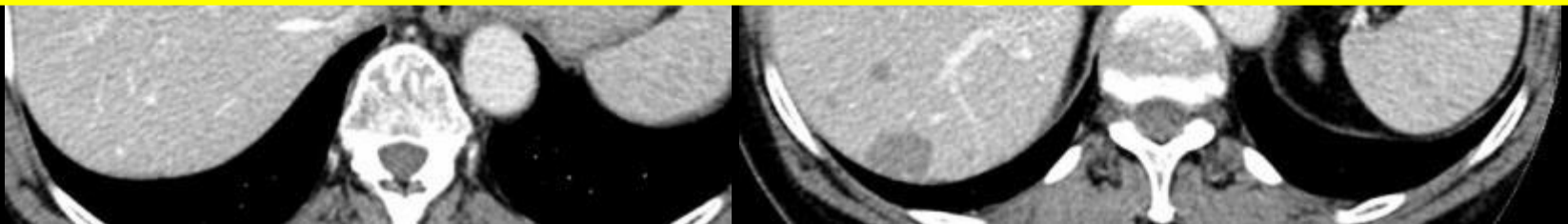
Benigní x maligní



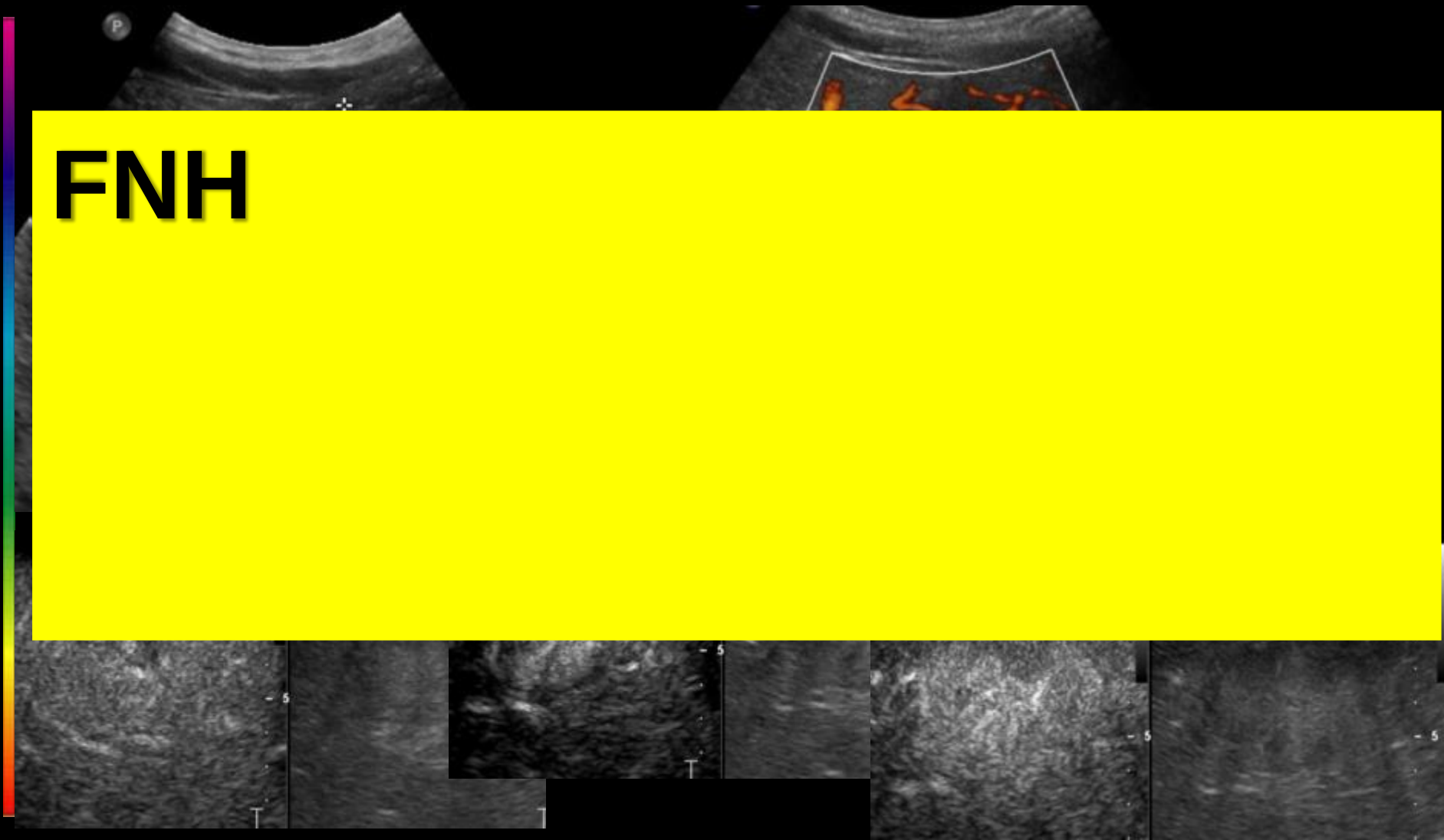
**Hepatocellulární adenom, z
biopsie – hepatocelulární
adenom**

Benigní x maligní

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



Benigní x maligní



The image shows a medical ultrasound of a liver. A large yellow rectangular area is superimposed over the center of the image, partially obscuring the underlying tissue. The text 'FNH' is printed in large, bold, black letters on the left side of this yellow area. The background is a dark blue gradient. At the top, there are two smaller ultrasound images: the left one shows a curved surface with a 'P' marker, and the right one shows a color Doppler flow map with red and blue areas indicating blood flow. At the bottom, there is a row of five small, grayscale ultrasound images showing different cross-sections or details of the liver tissue.

FNH

Benigní x maligní

The background of the slide features four grayscale ultrasound images of the liver. The top-left image shows a curved, hypoechoic structure. The top-right image shows a more complex, elongated lesion with internal echogenicity. The bottom-left image shows a dark, granular area. The bottom-right image shows a lighter, more homogeneous area. A vertical color bar is visible on the far left edge of the slide.

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

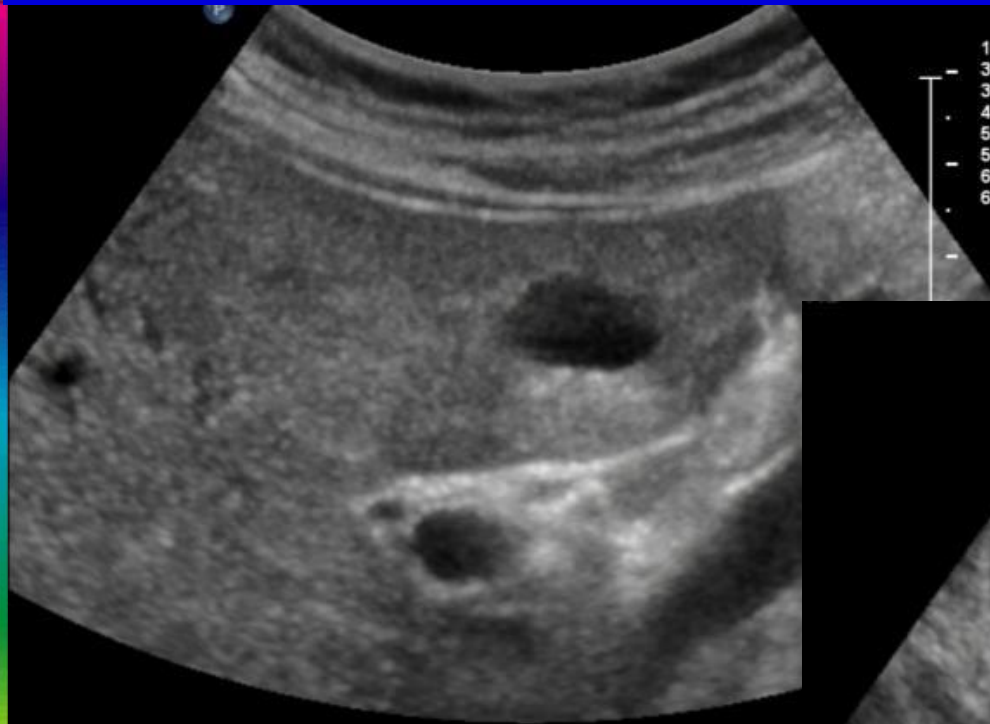
Benigní x maligní

Dle histologie 2x adenom

Na co se soustředit

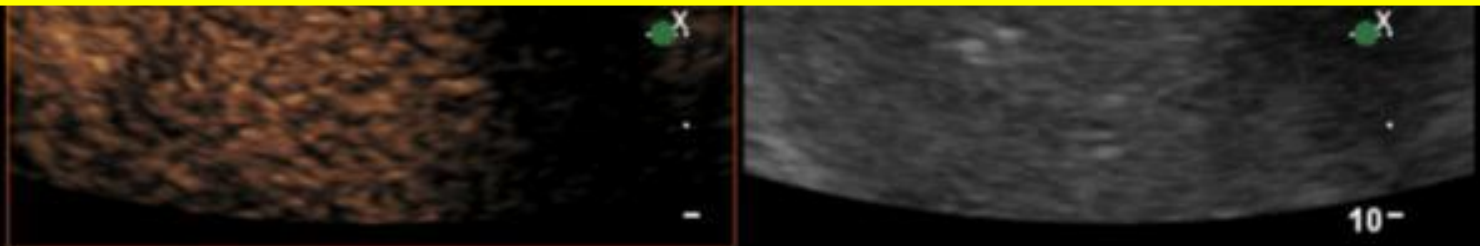
Žena, tu střeva, sledovaná rok, roč. 67, stav před rokem po hemikolektomii.

Cysta???



Cysta???

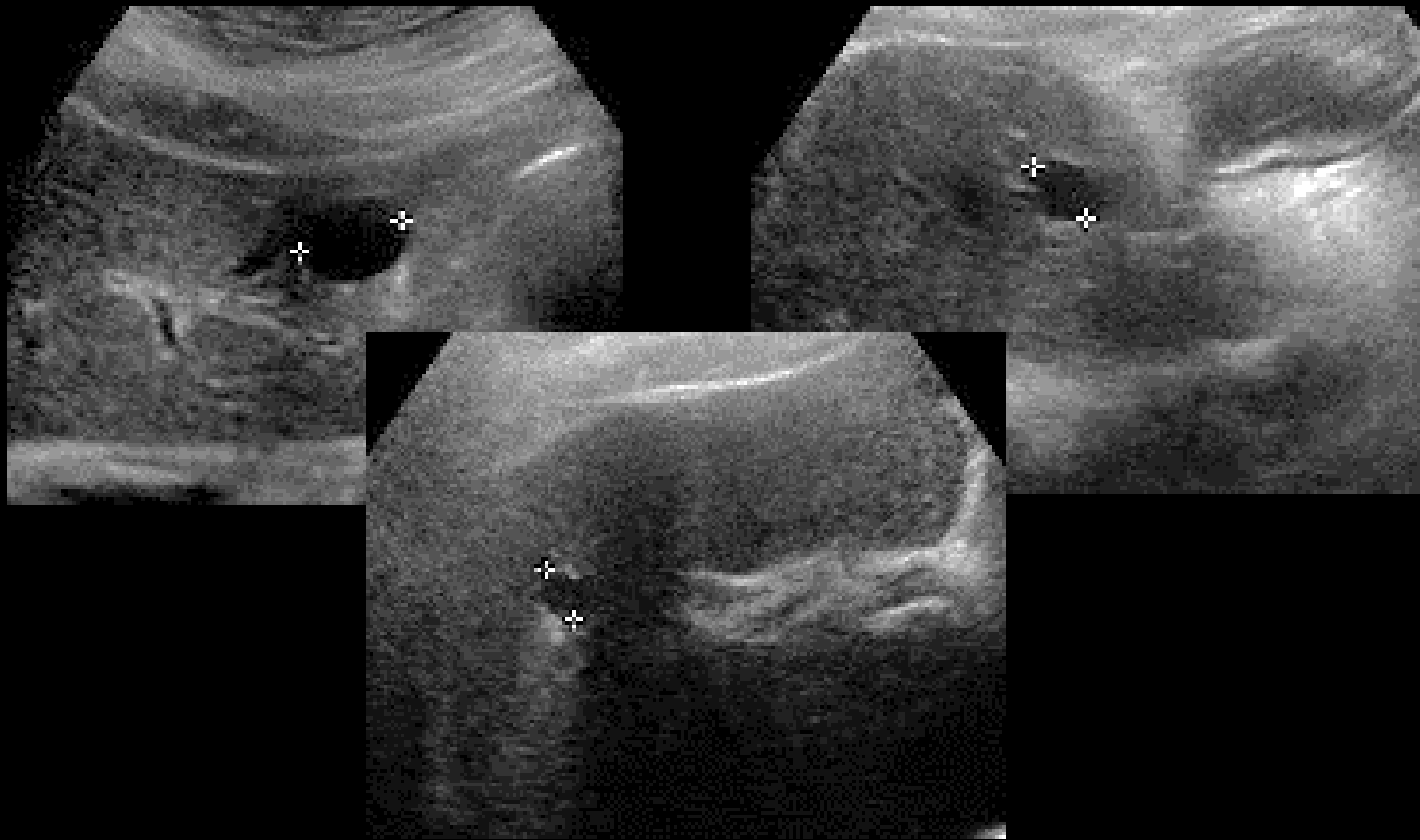
**Známý tumor, kolorektální
ca, 1x cysta, 1x metastáza**



Na co se soustředit

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

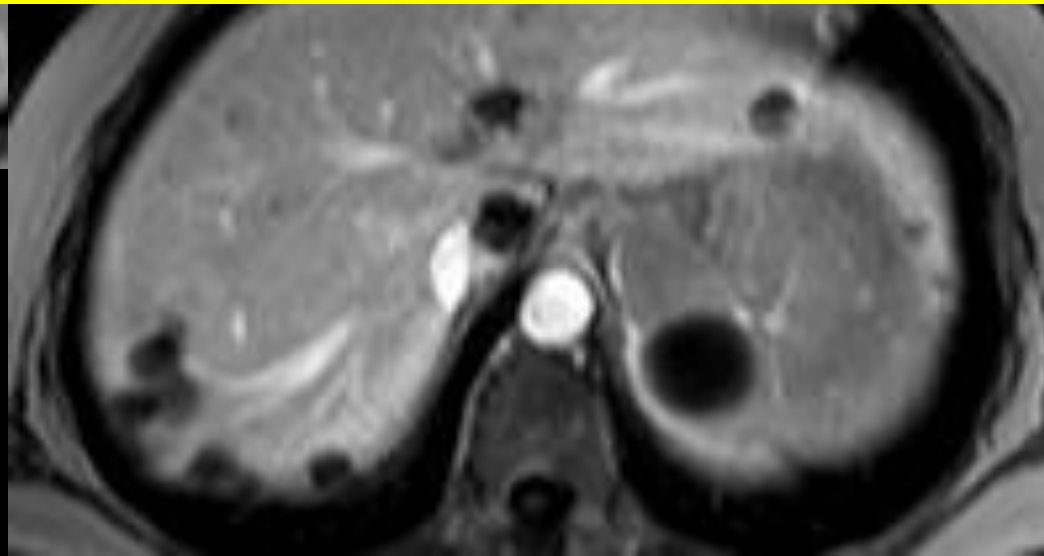
Cysta??



Cysta??

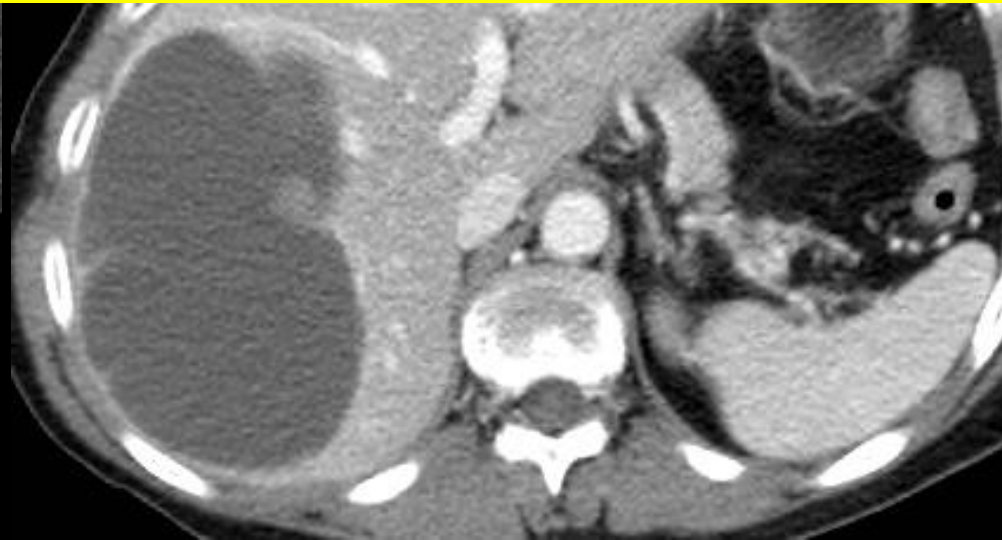


Cystické metastázy

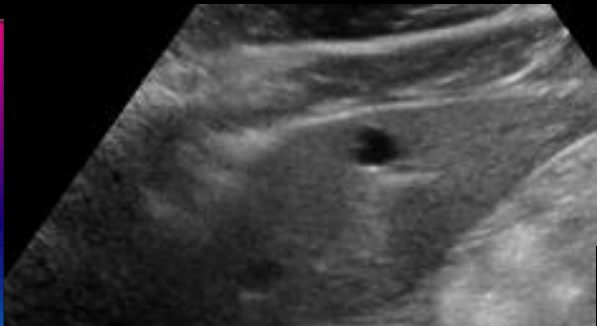


Cysta??

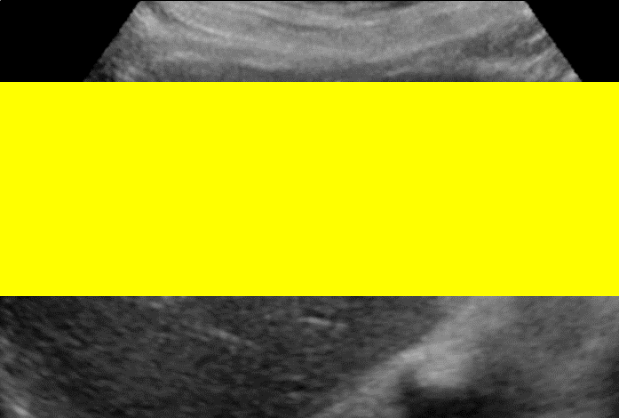
Cystické metastázy



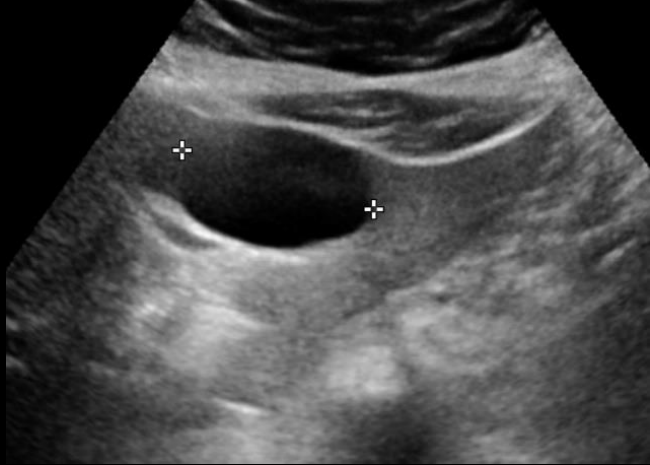
Cysta??



Cysta



2014



2016

2014

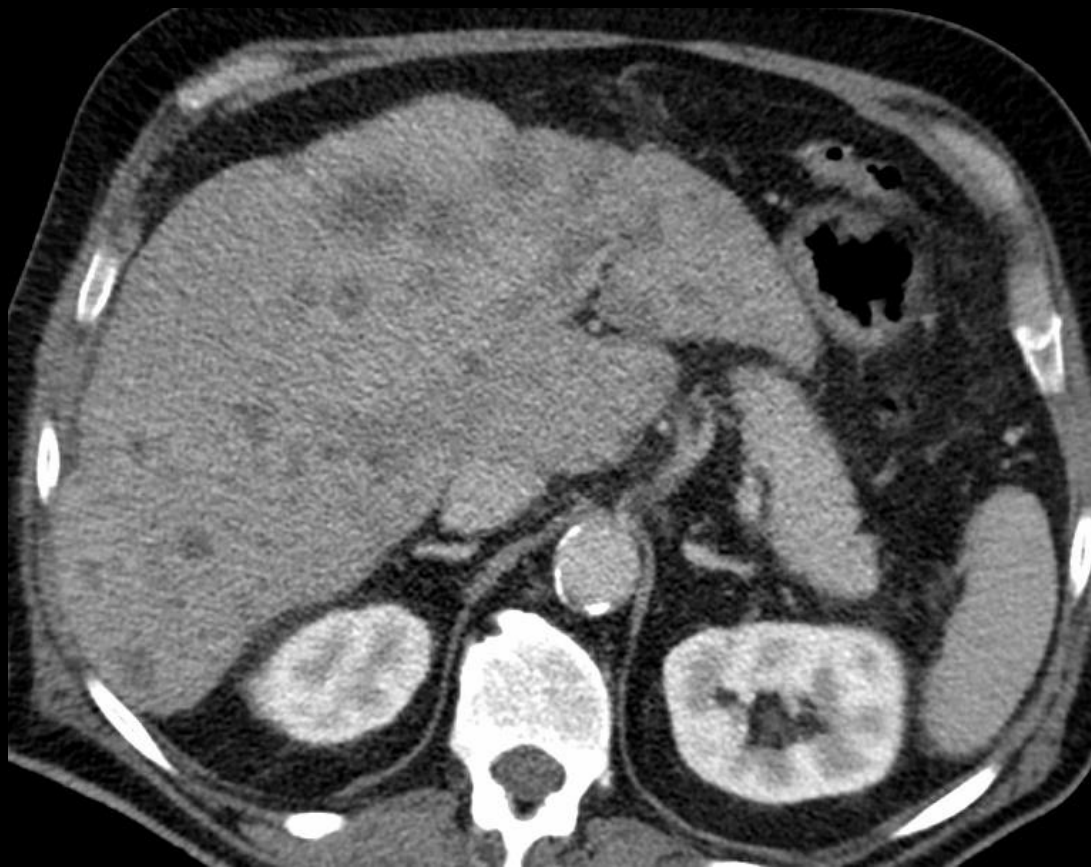
2016

Játra - struktura

The image is a composite of four grayscale ultrasound scans of a liver. The scans are arranged in a 2x2 grid, with a central yellow rectangular area containing the word 'Metastázy'. The liver tissue appears as a grainy, medium-gray texture. In the bottom-left scan, several small, dark, anechoic spots are visible, which are characteristic of liver metastases. A vertical color calibration bar is located on the far left edge of the image.

Metastázy

Játra - struktura



Hemangiom 4-13??



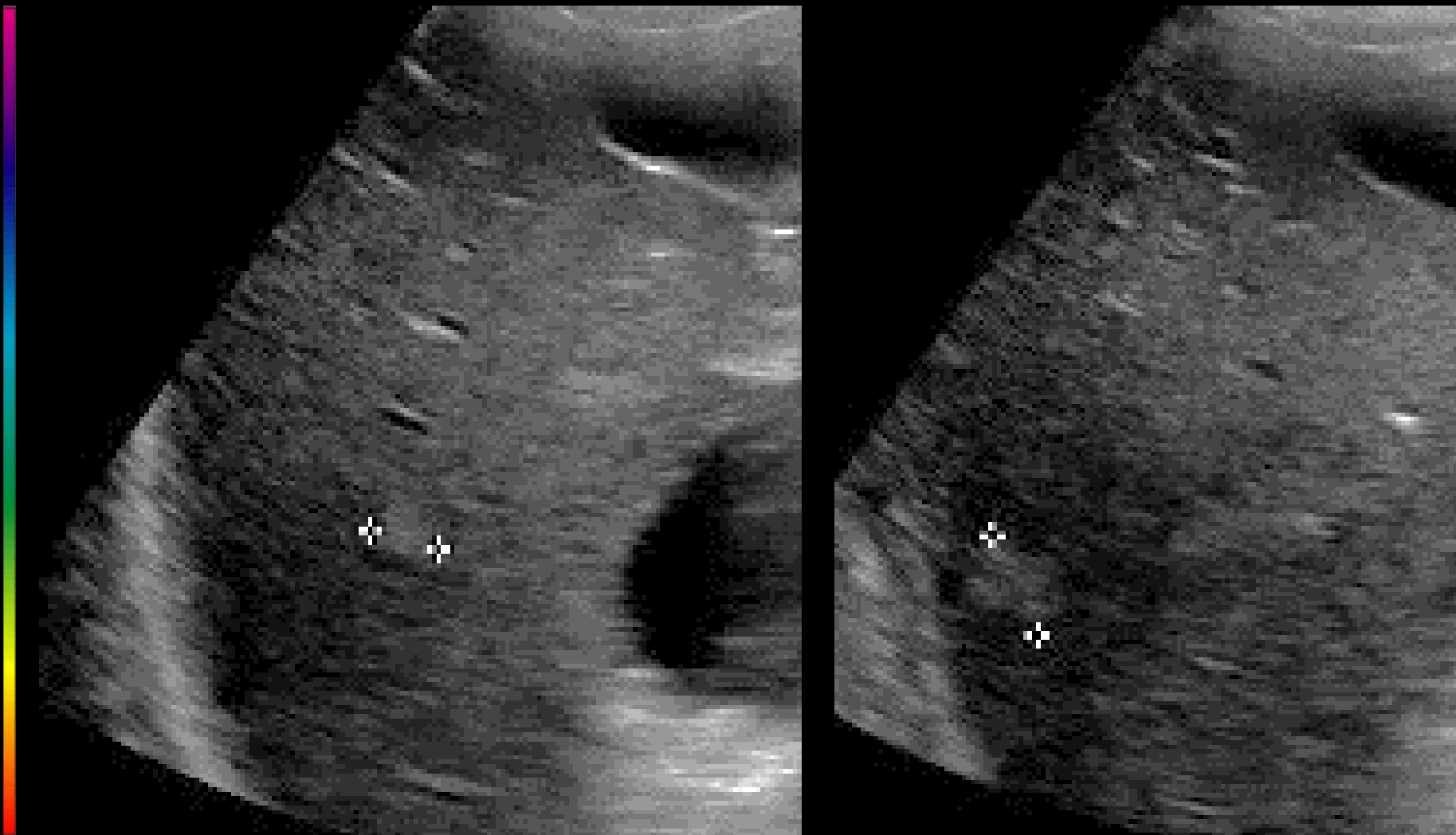
Hemangiom 9-12??



Hemangiom 3-13??



Hemangiom 8-13 ??

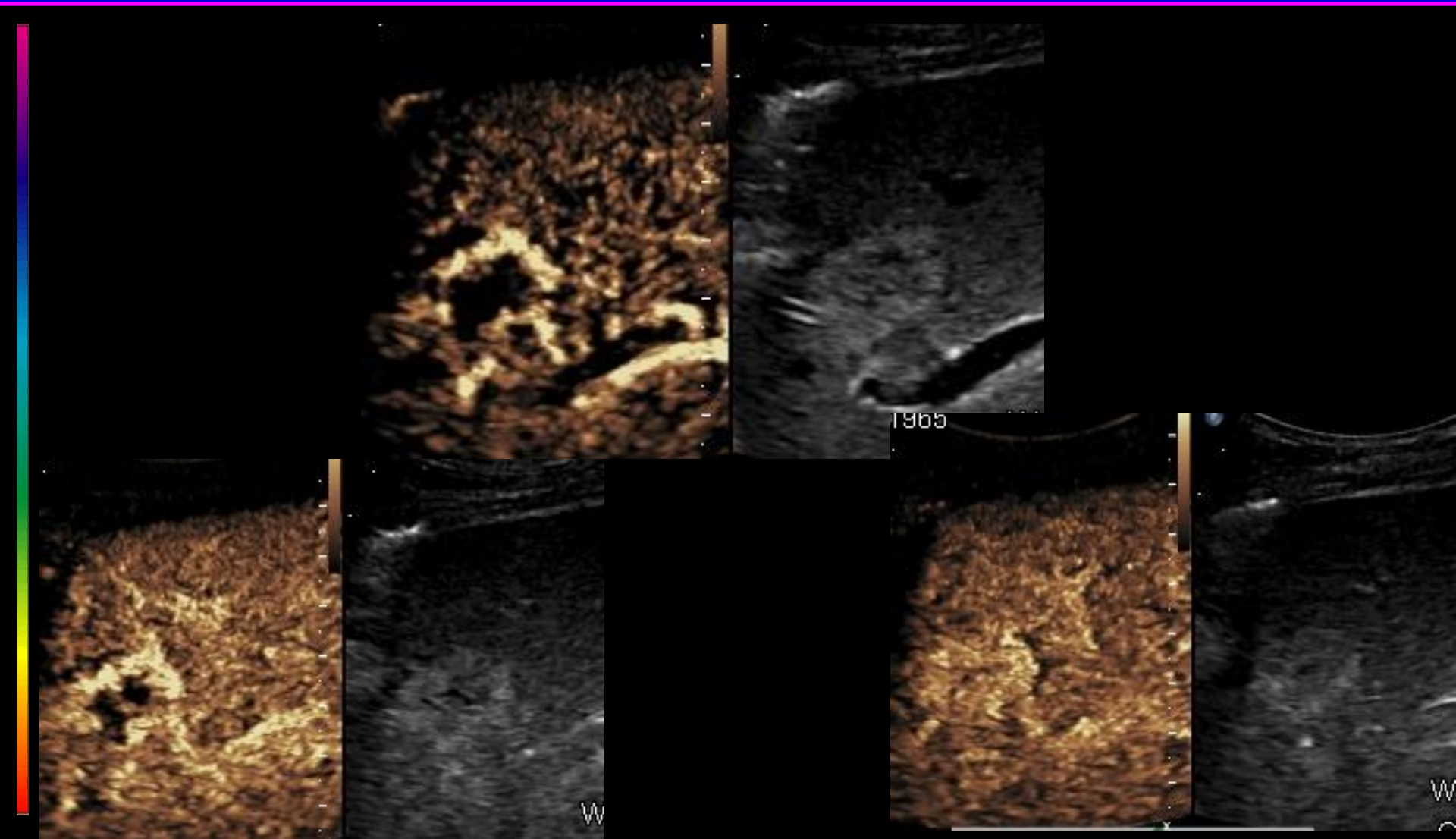


Hemangiom 10-13??

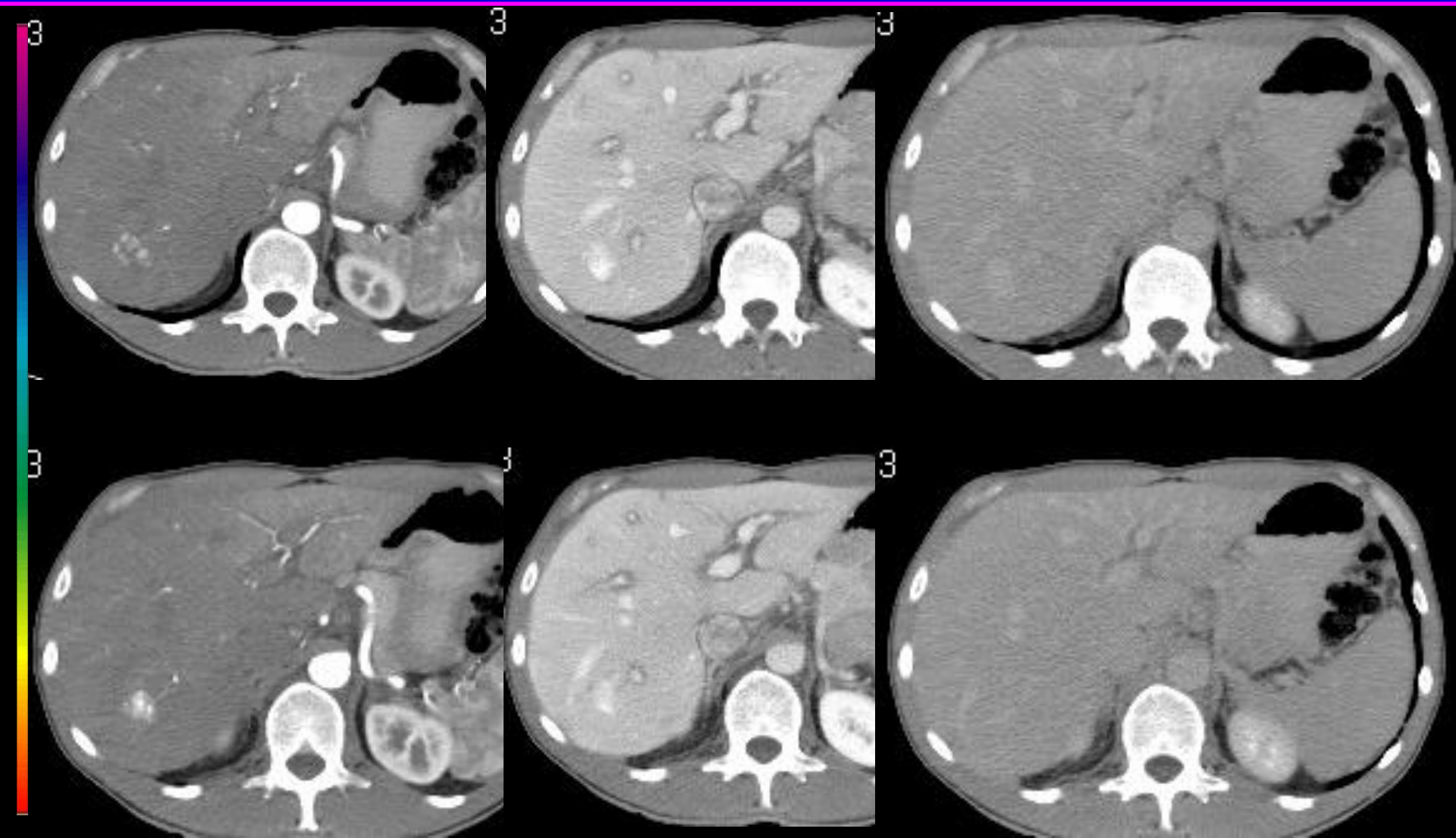
Metastáza



Hemangiom??



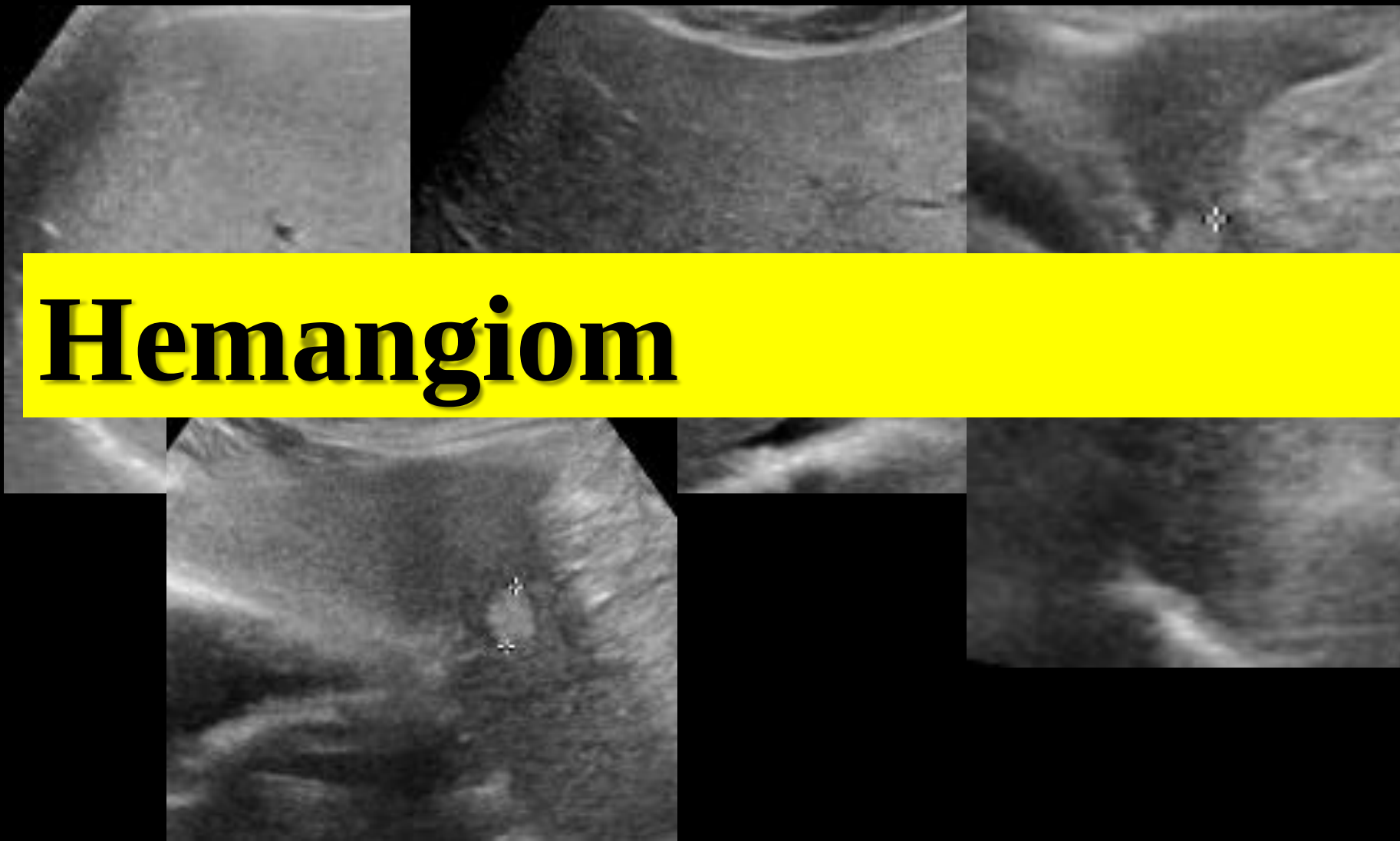
Hemangiom??



Hemangiom??

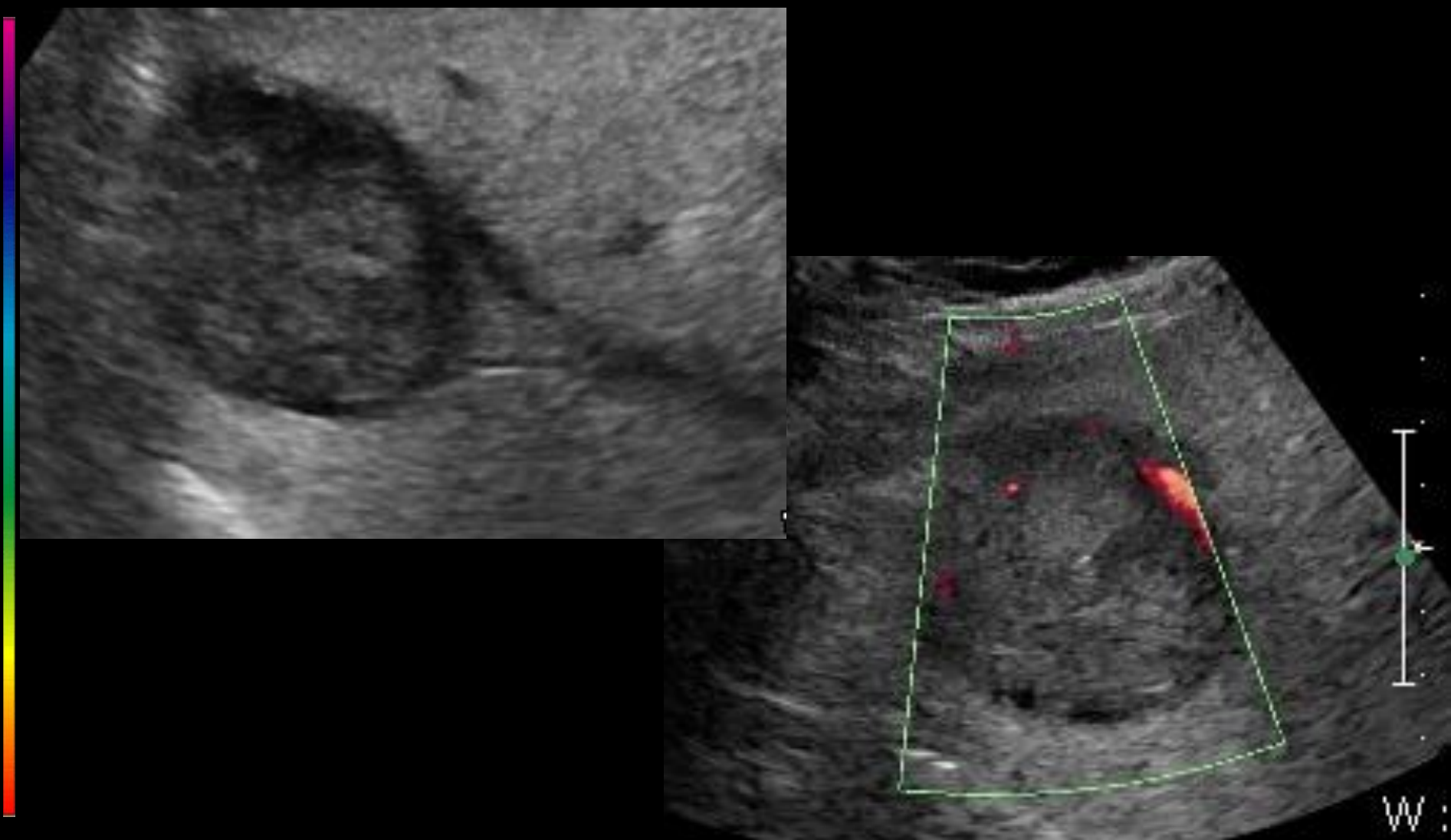


Hemangiom??

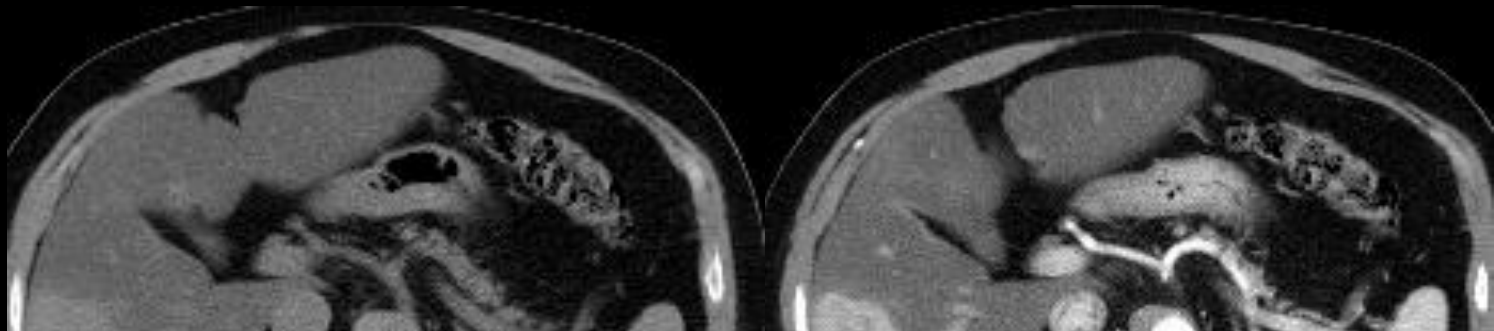


Hemangiom

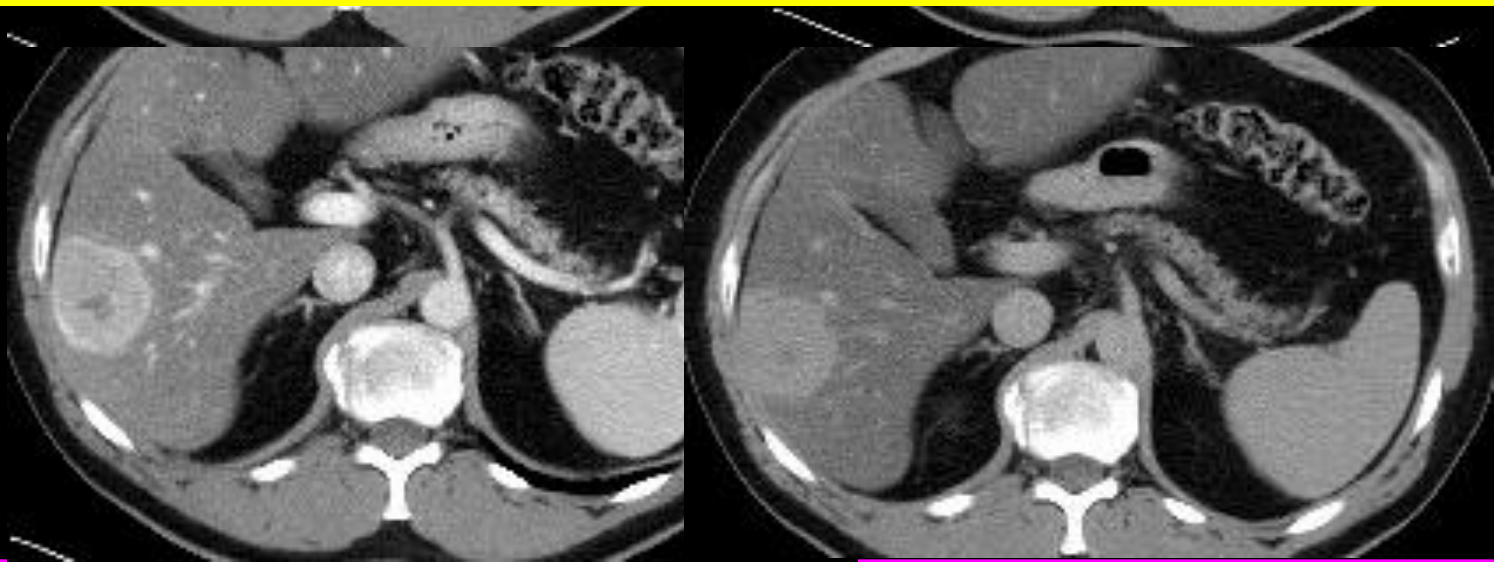
Hemangiom??



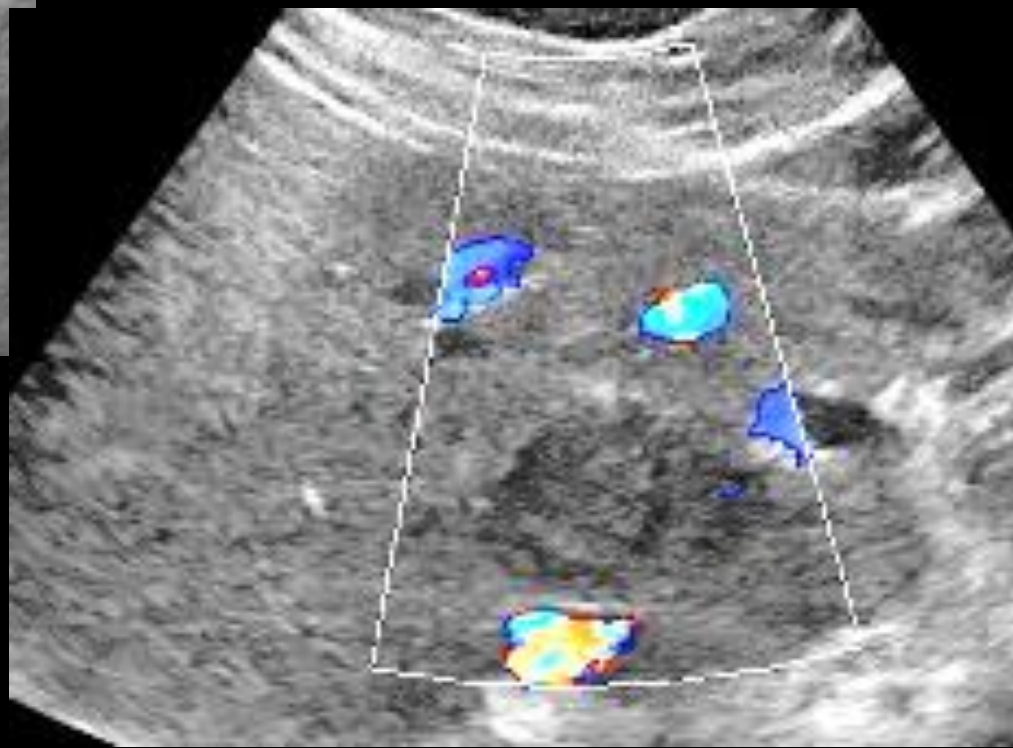
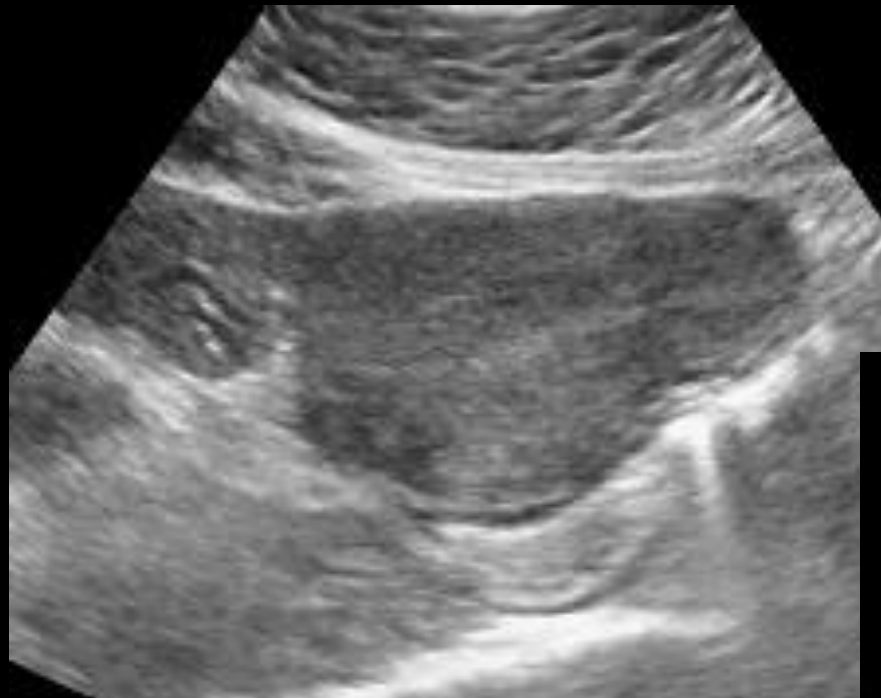
Hemangiom??



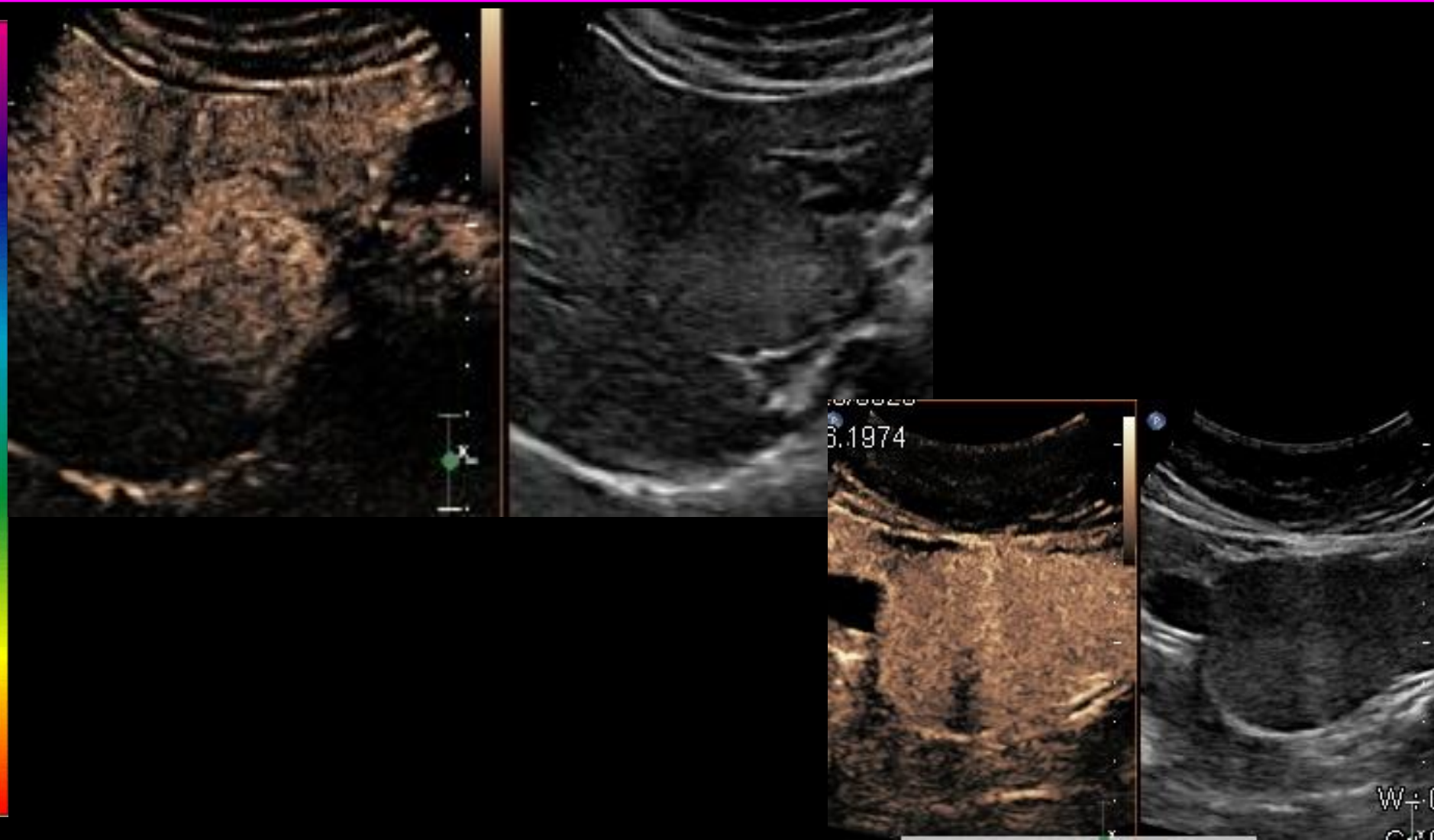
HCC



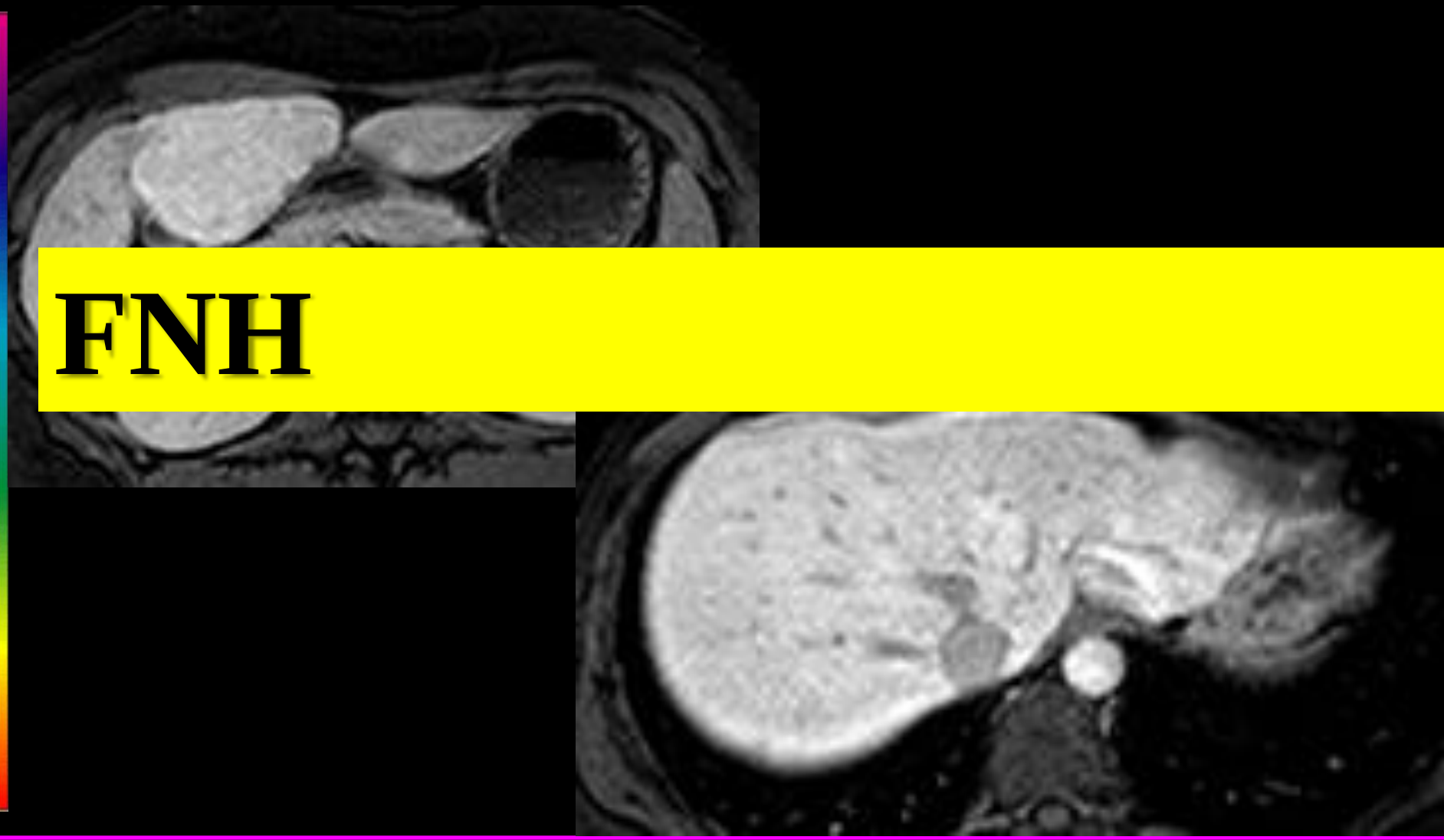
Benigní??



Benigní??



Benigní??

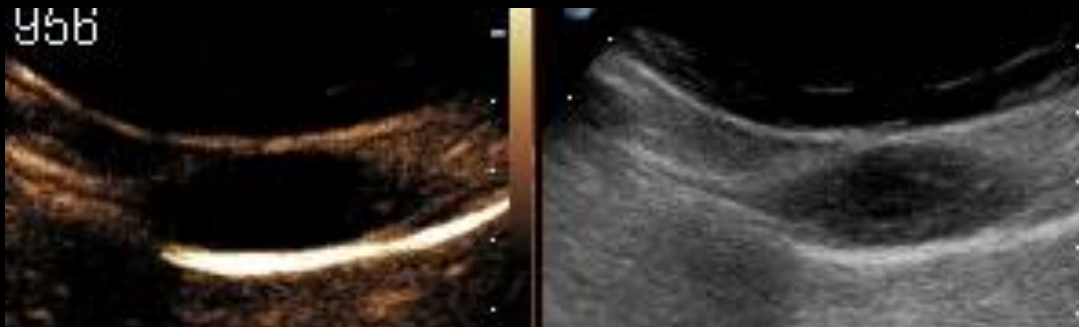


FNH

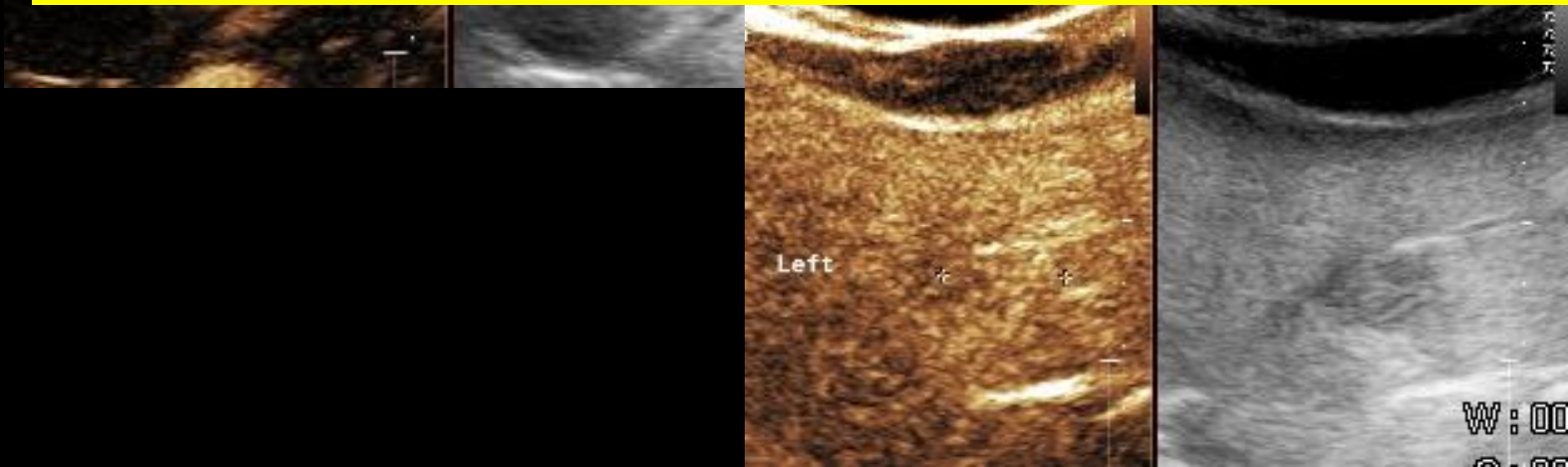
Benigní??



Benigní??



FNH



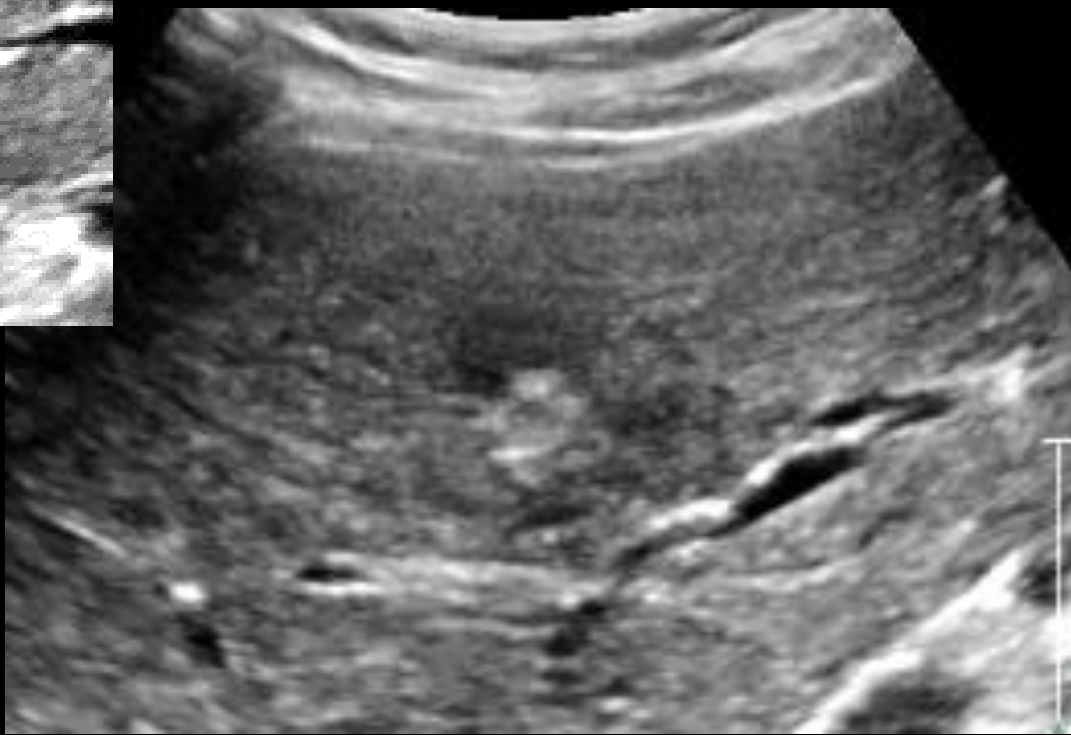
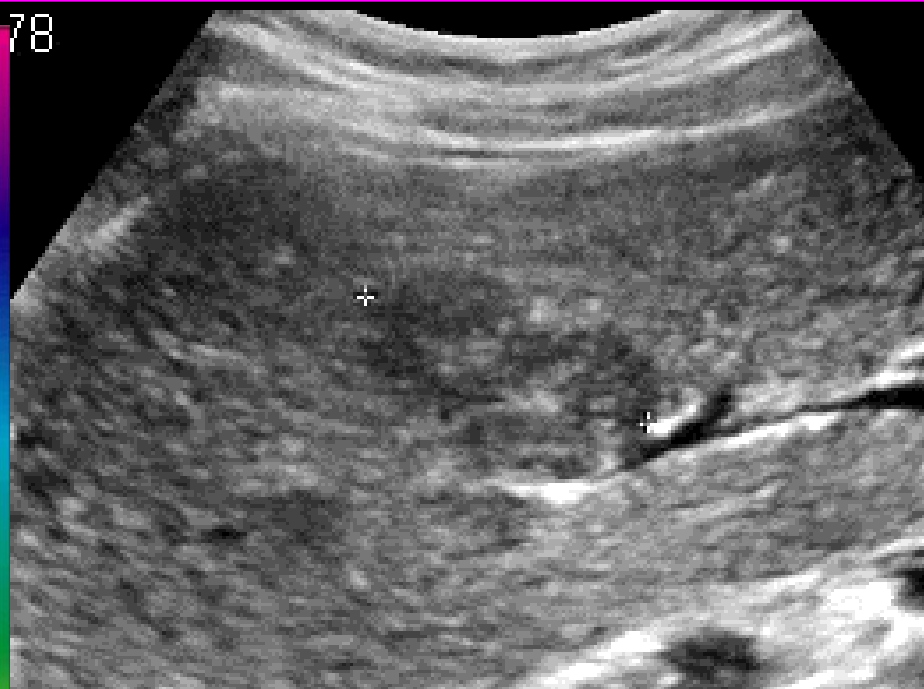
Benigní 20.12.11??



Benigní 12.06.12??



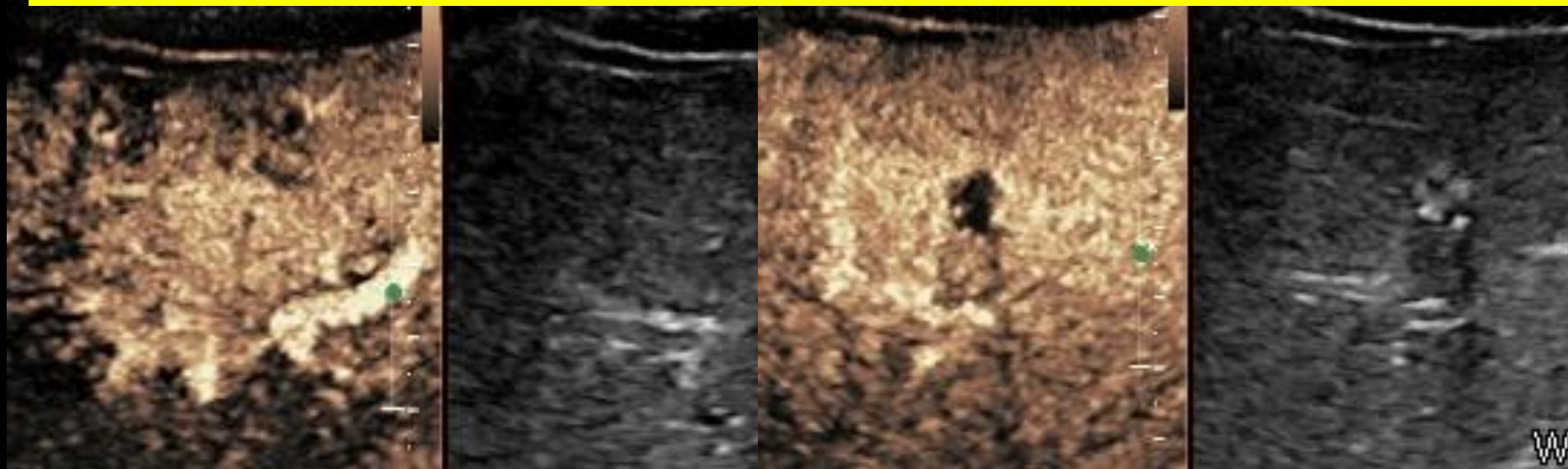
Benigní??



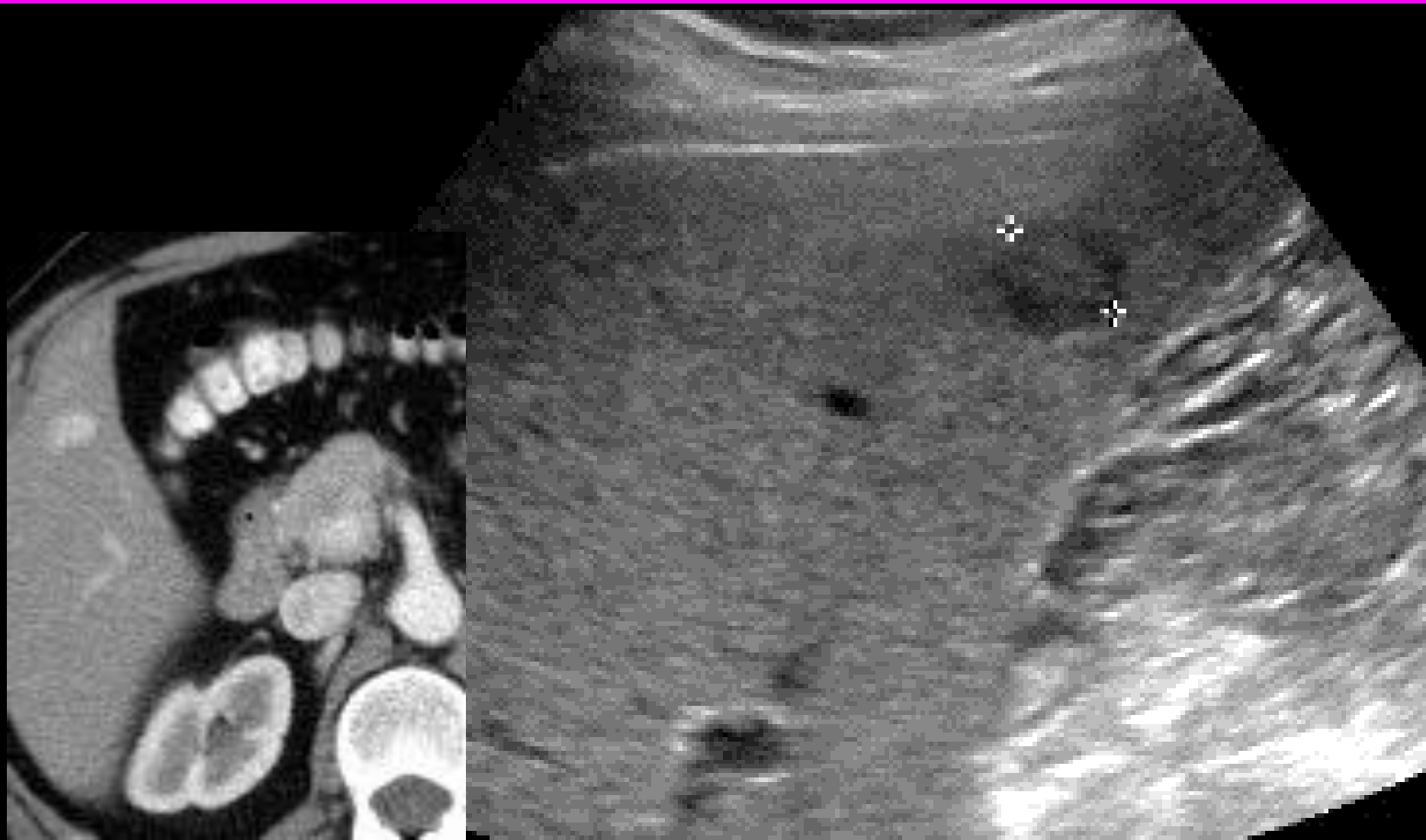
Benigní??



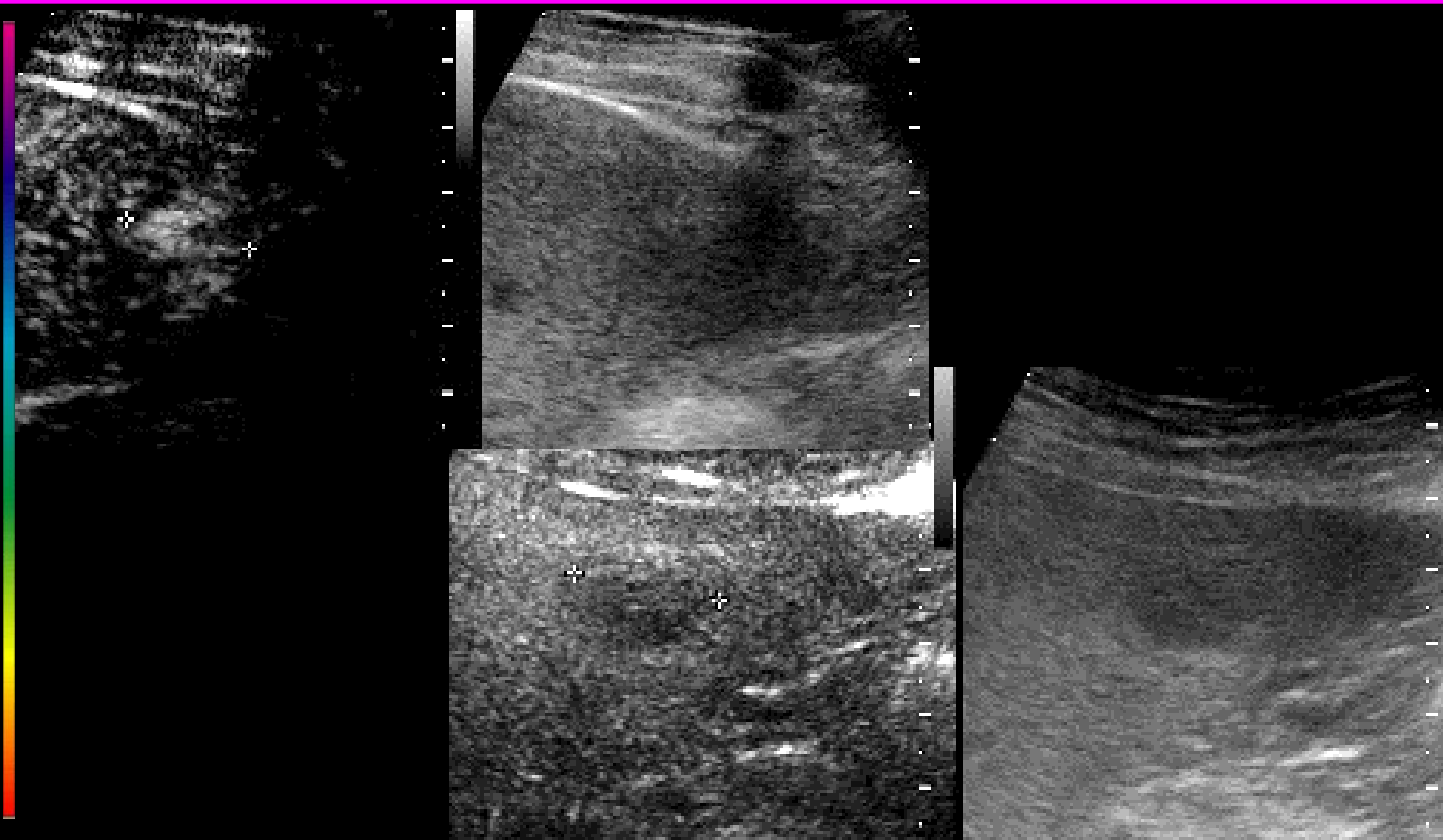
FNH



Benigní??

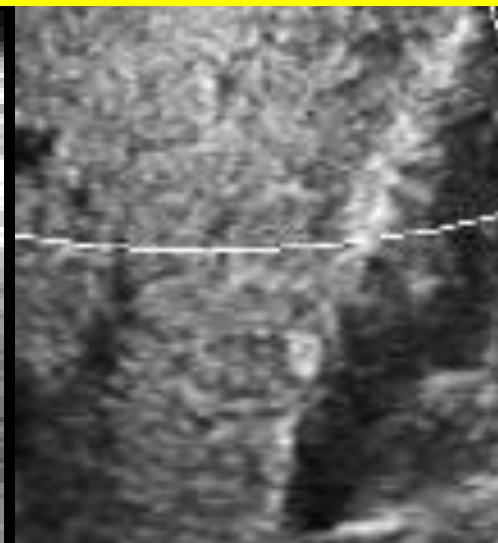
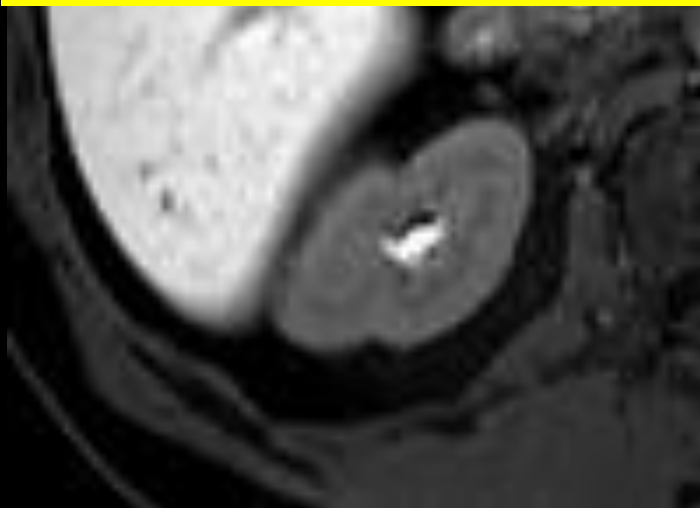
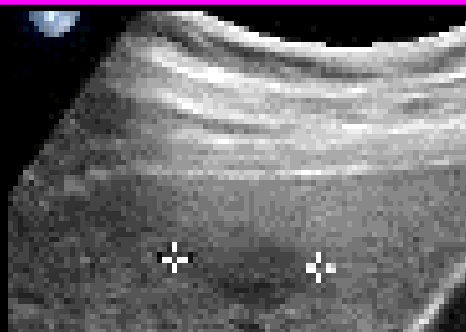


Benigní??

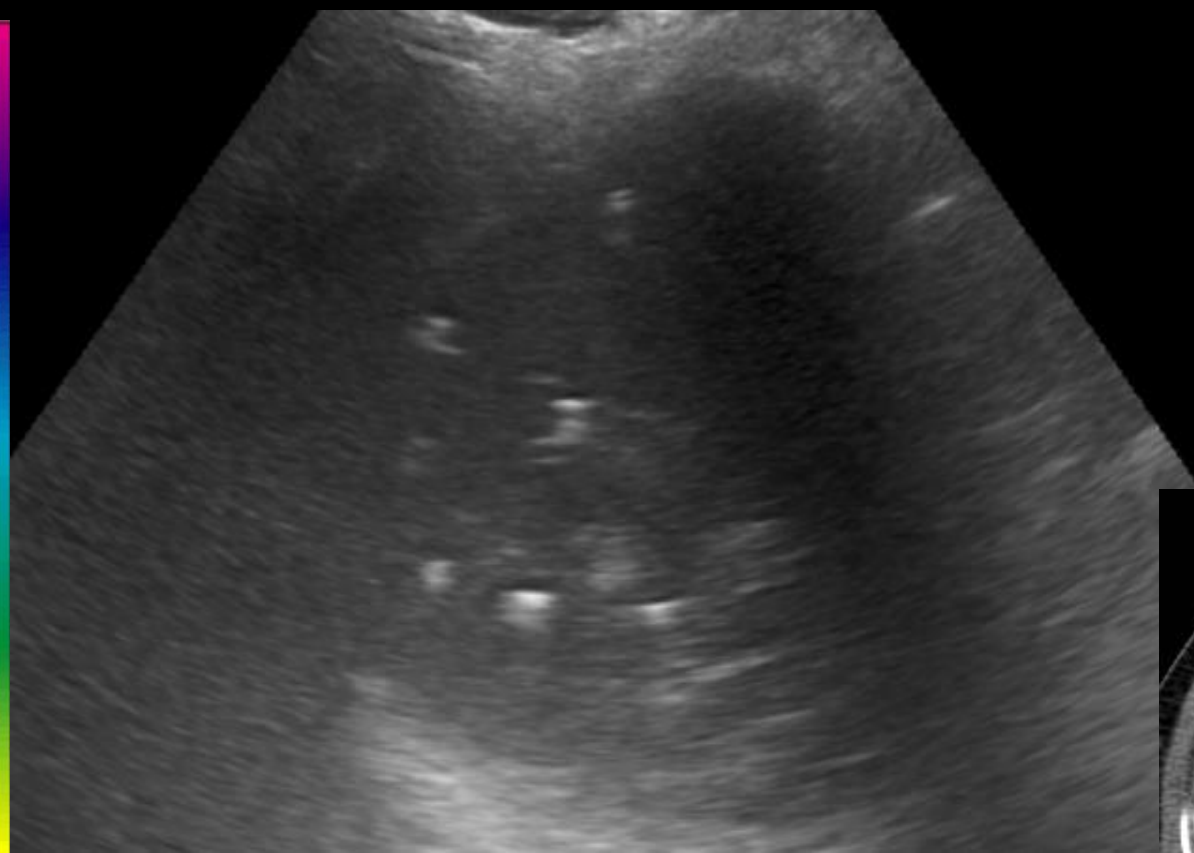


Benigní??

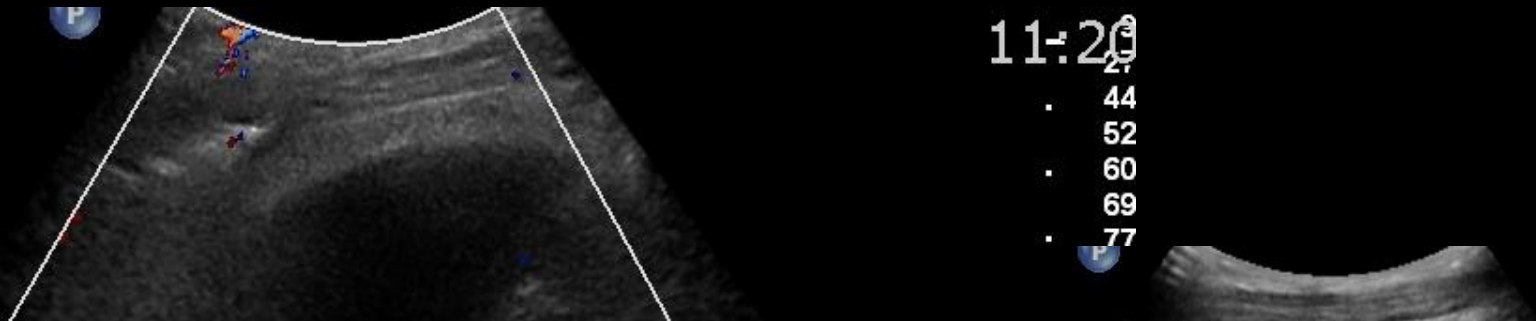
FNH



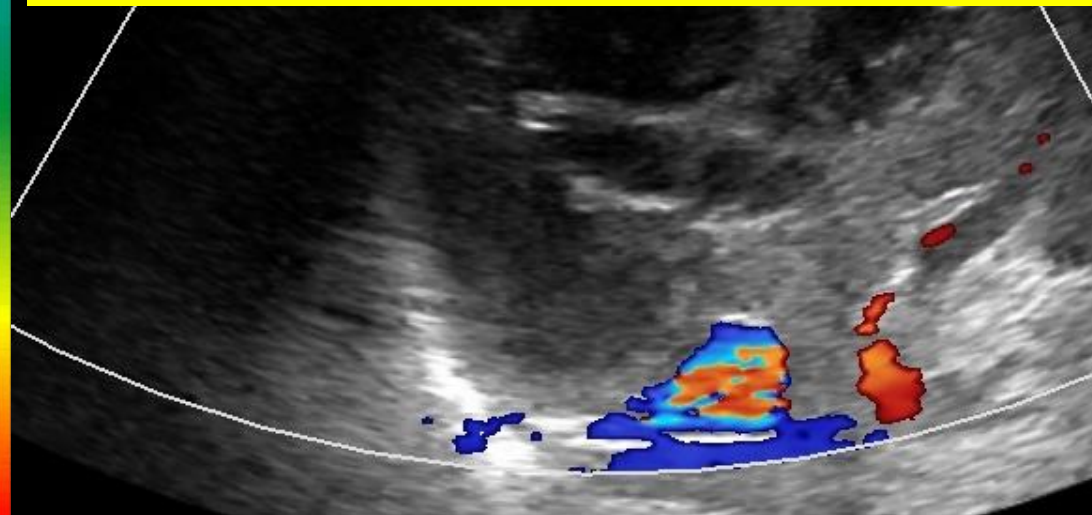
Benigní??



Benigní??



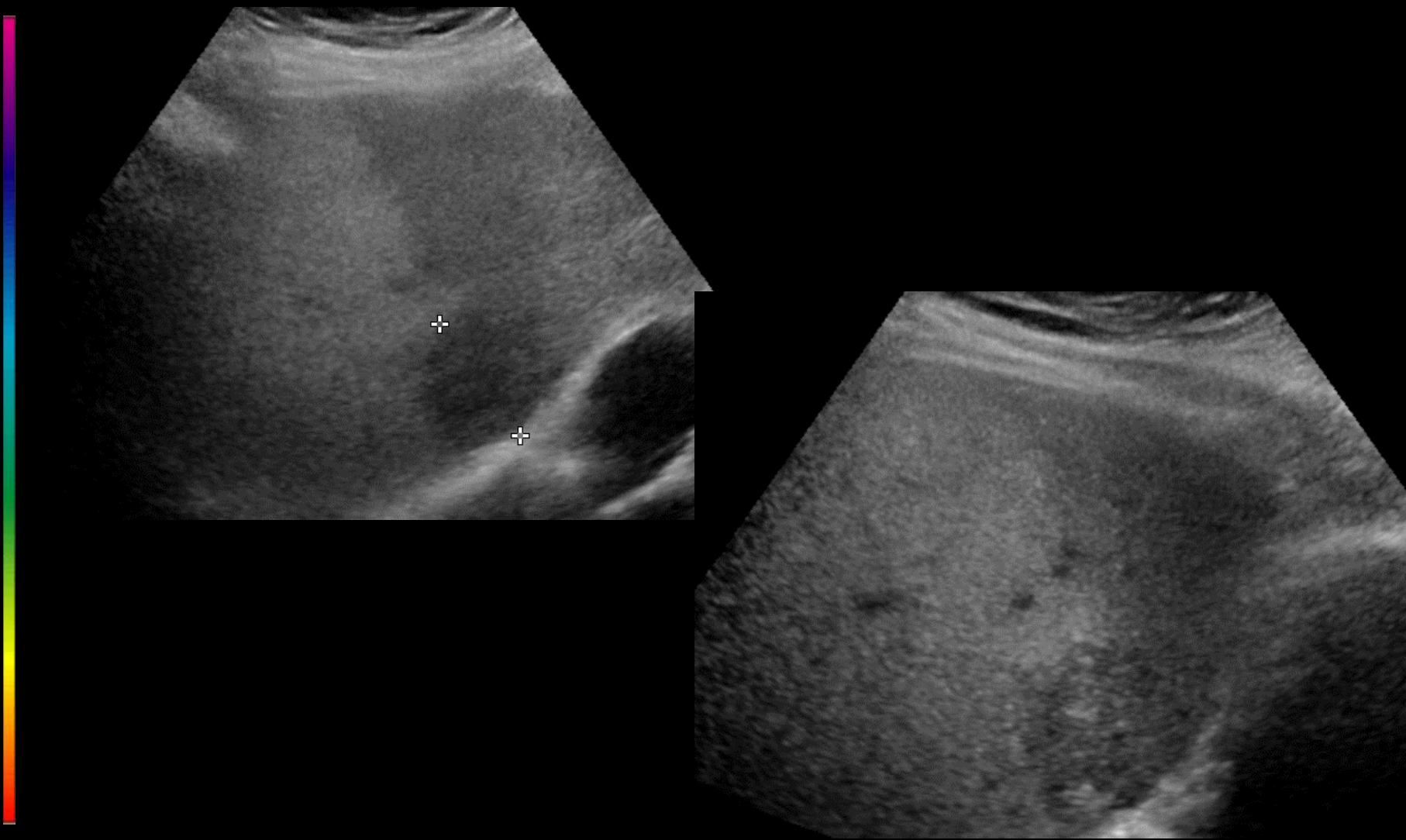
Absces



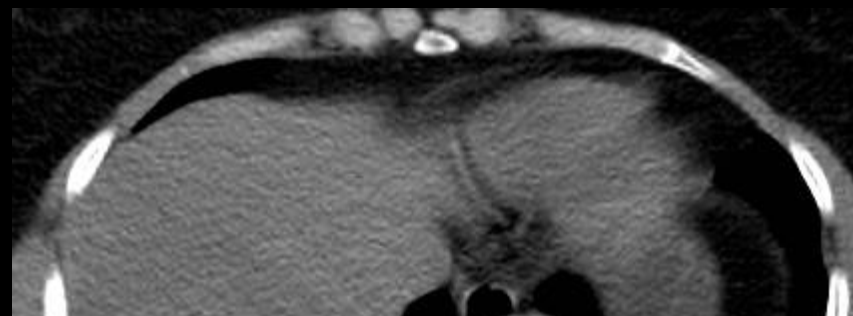
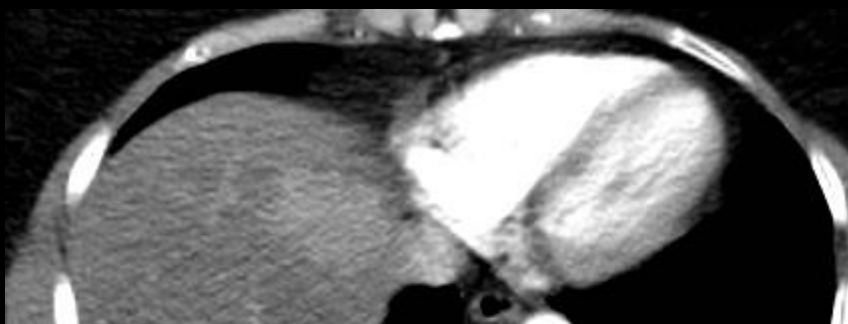
Na co se soustředit

Žena, játra, náhodný nález

Benigní??



Benigní??

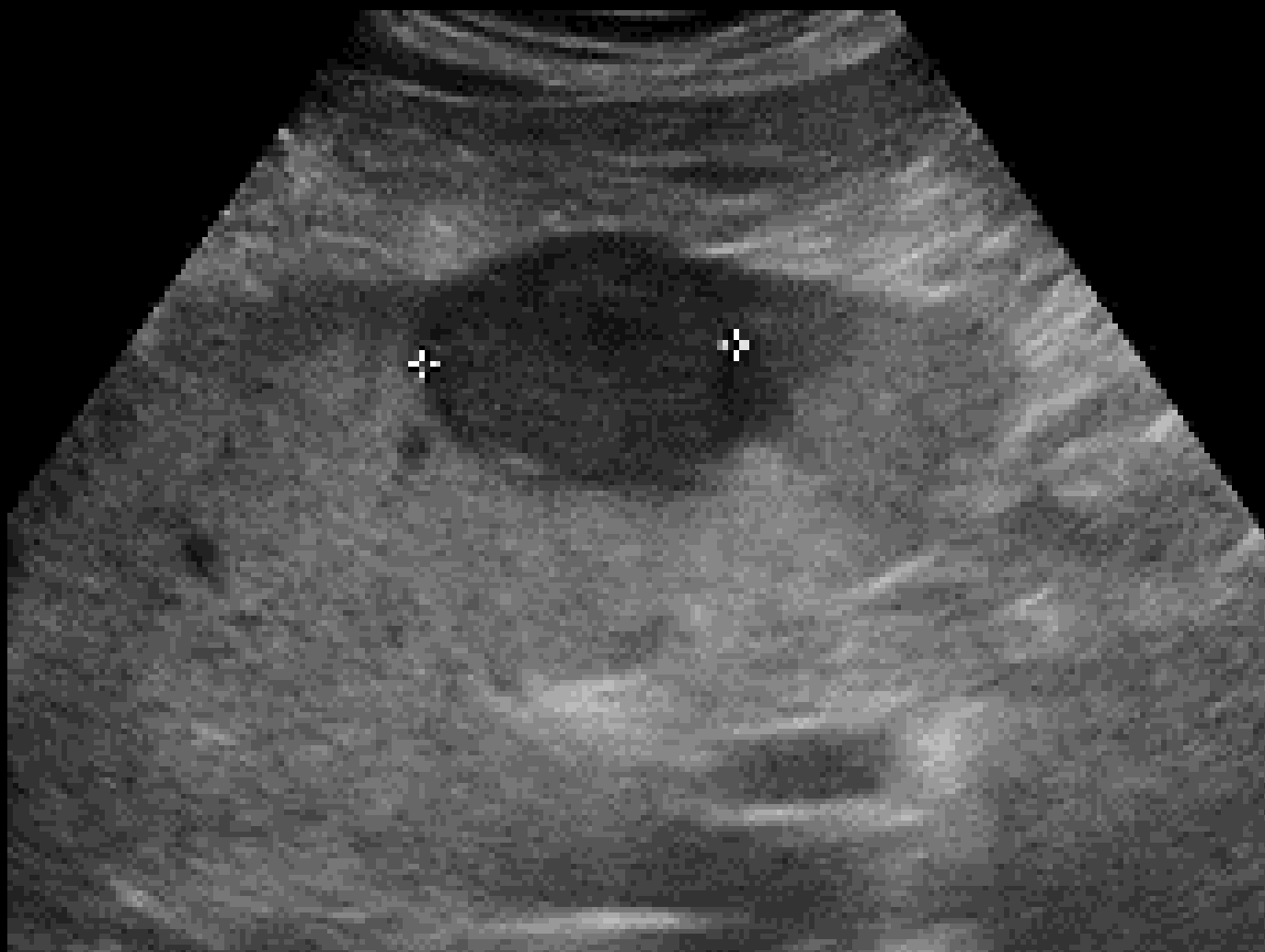


FNH

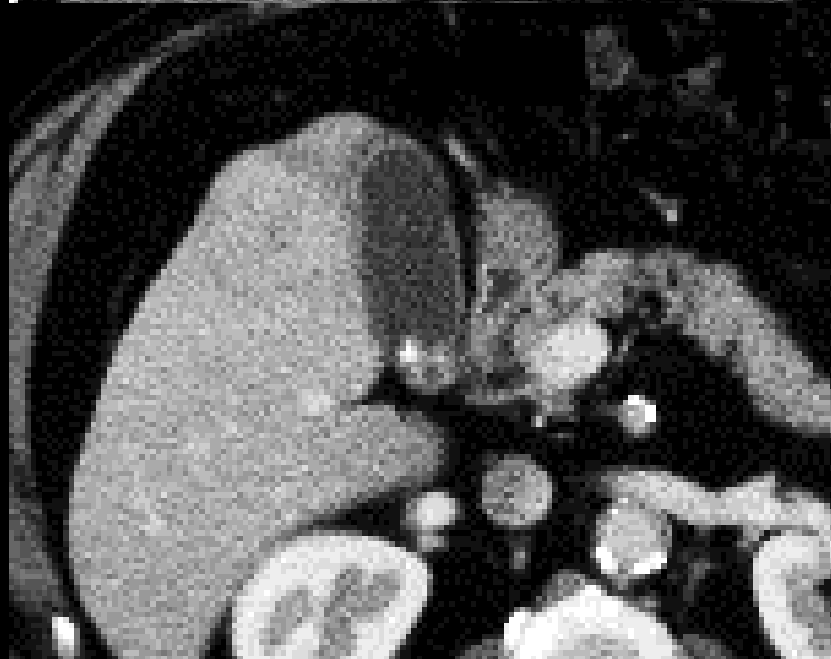


-1
5
001010

Benigní??



Benigní??



Benigní??

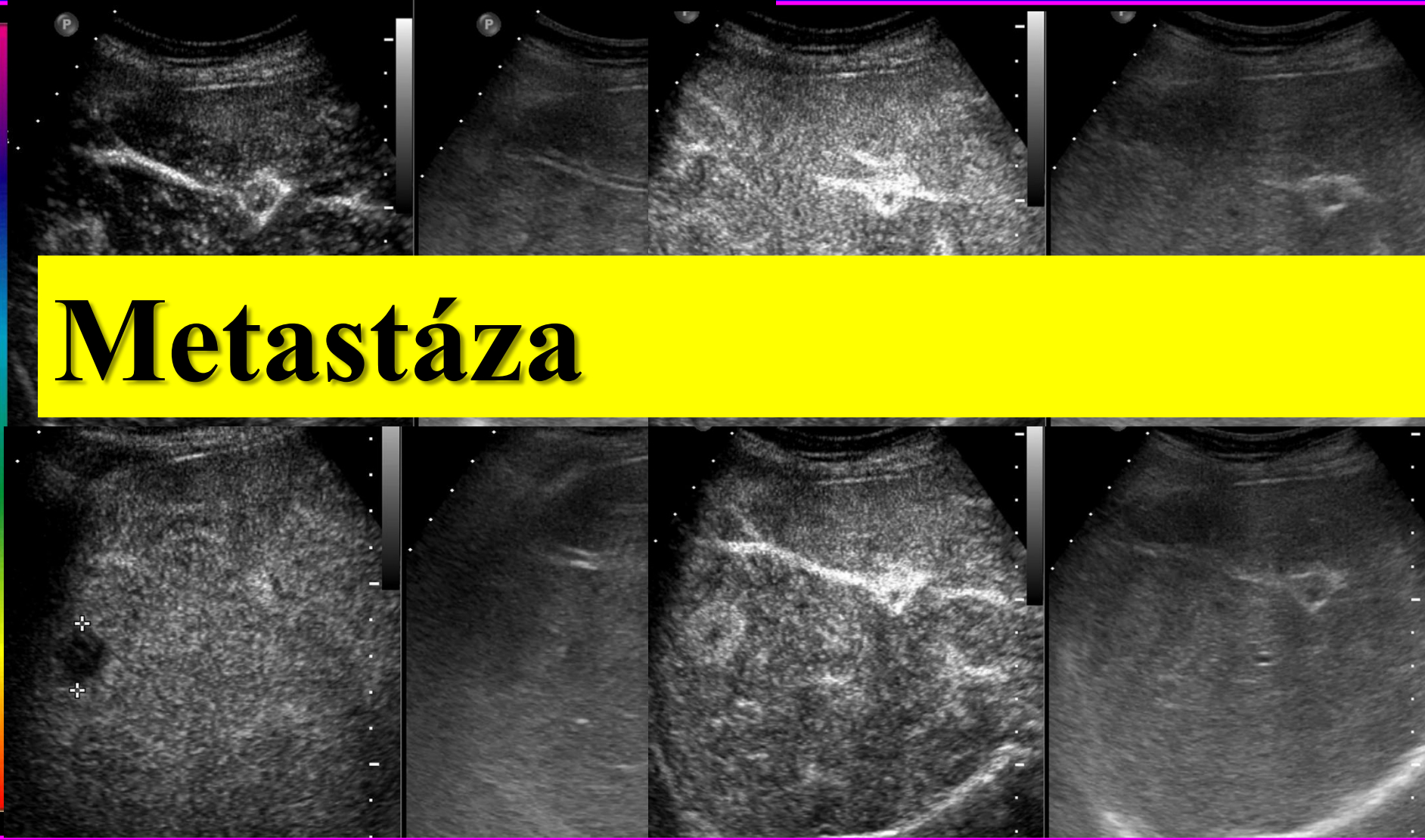
FNH

1940

Benigní??

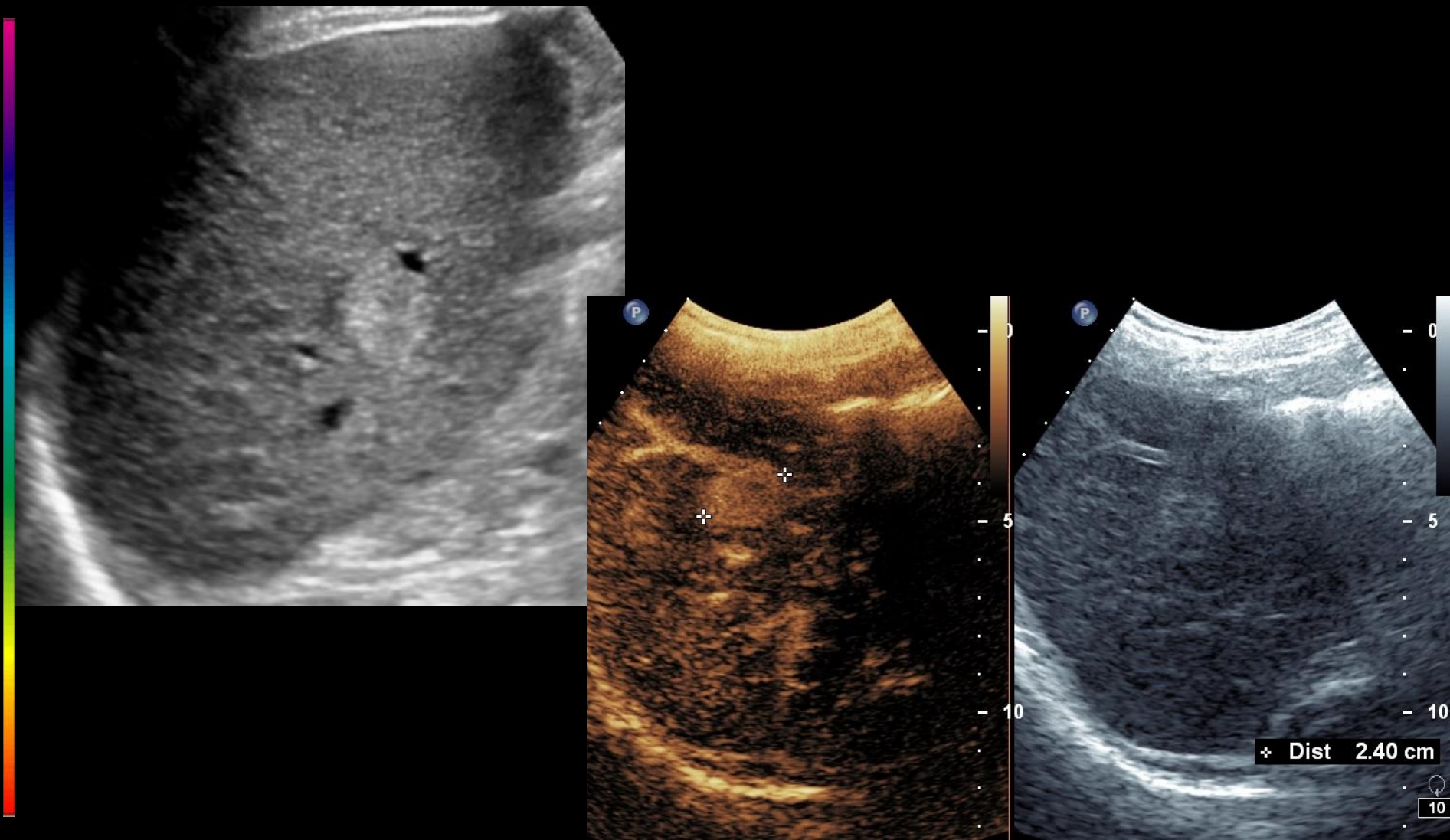


Benigní??

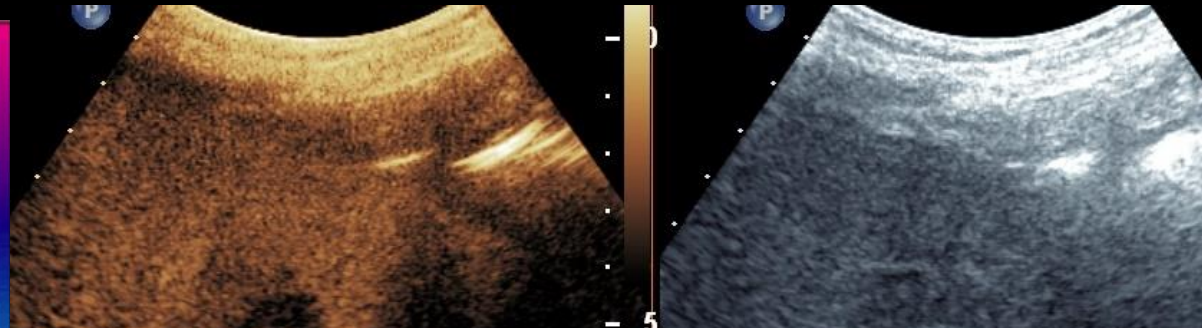


Metastáza

Benigní??



Benigní??



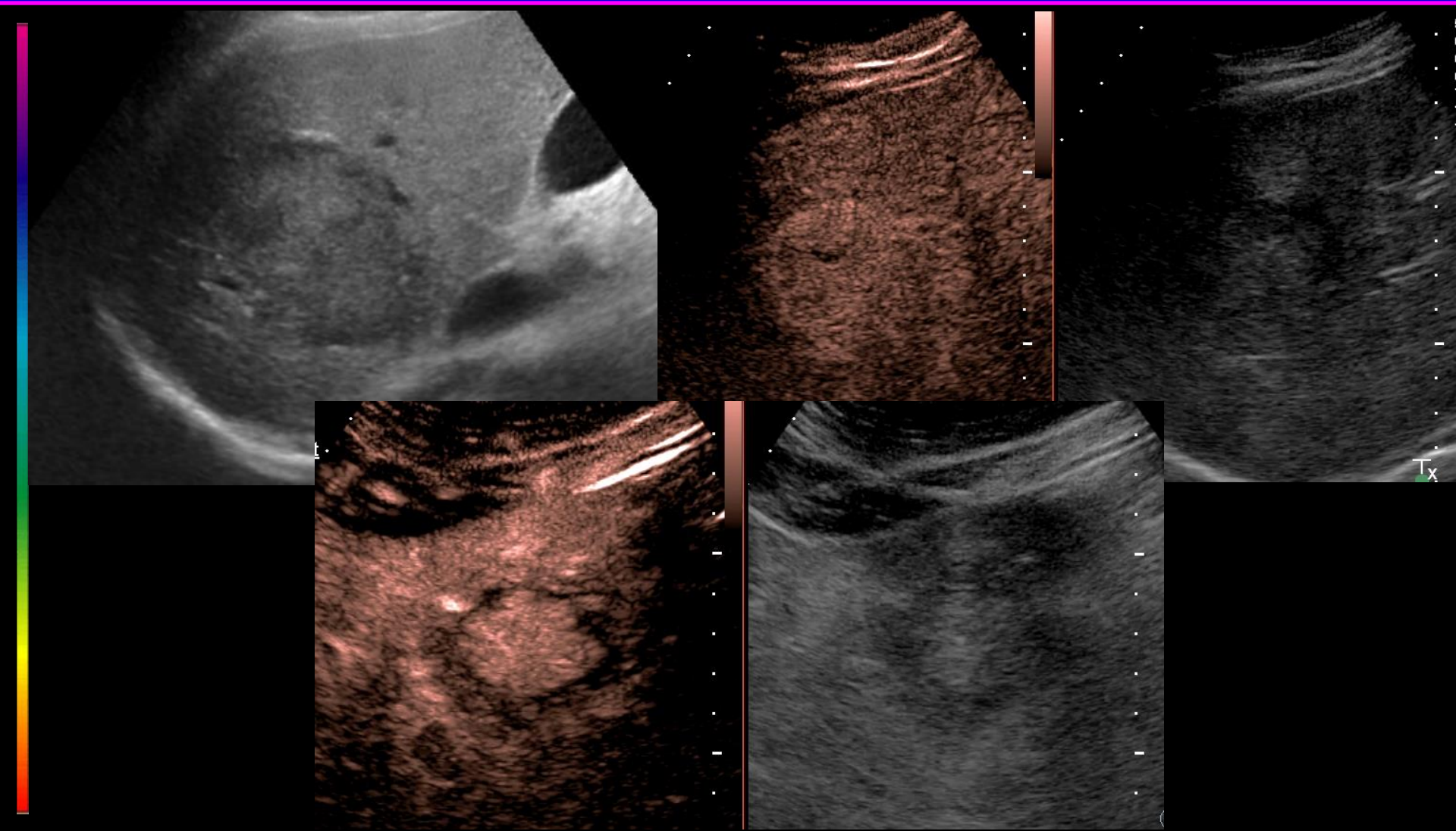
Metastáza



Na co se soustředit

Žena, játra, 1986

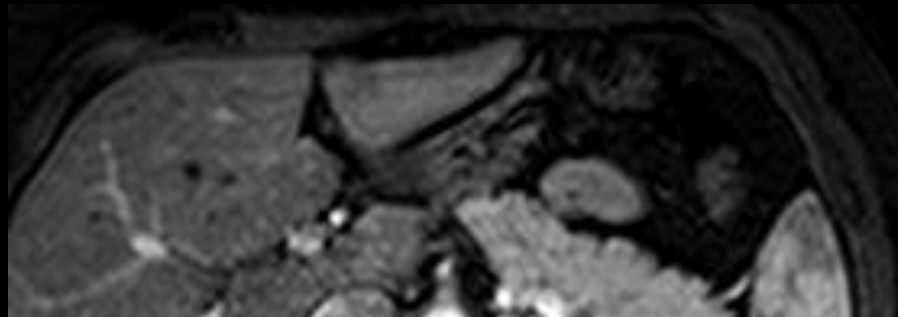
2012



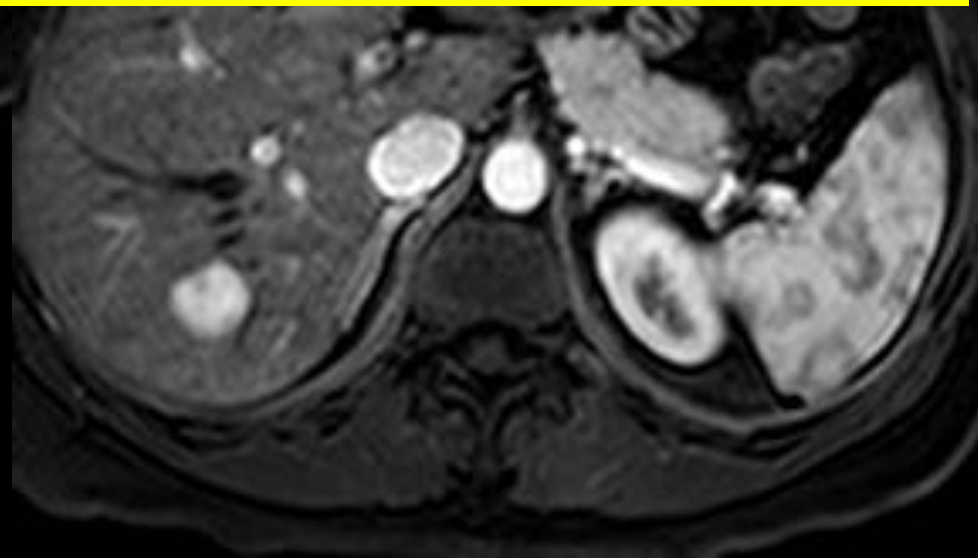
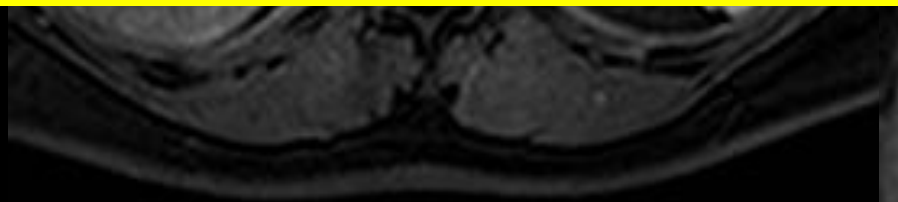
2014



2016



FNH

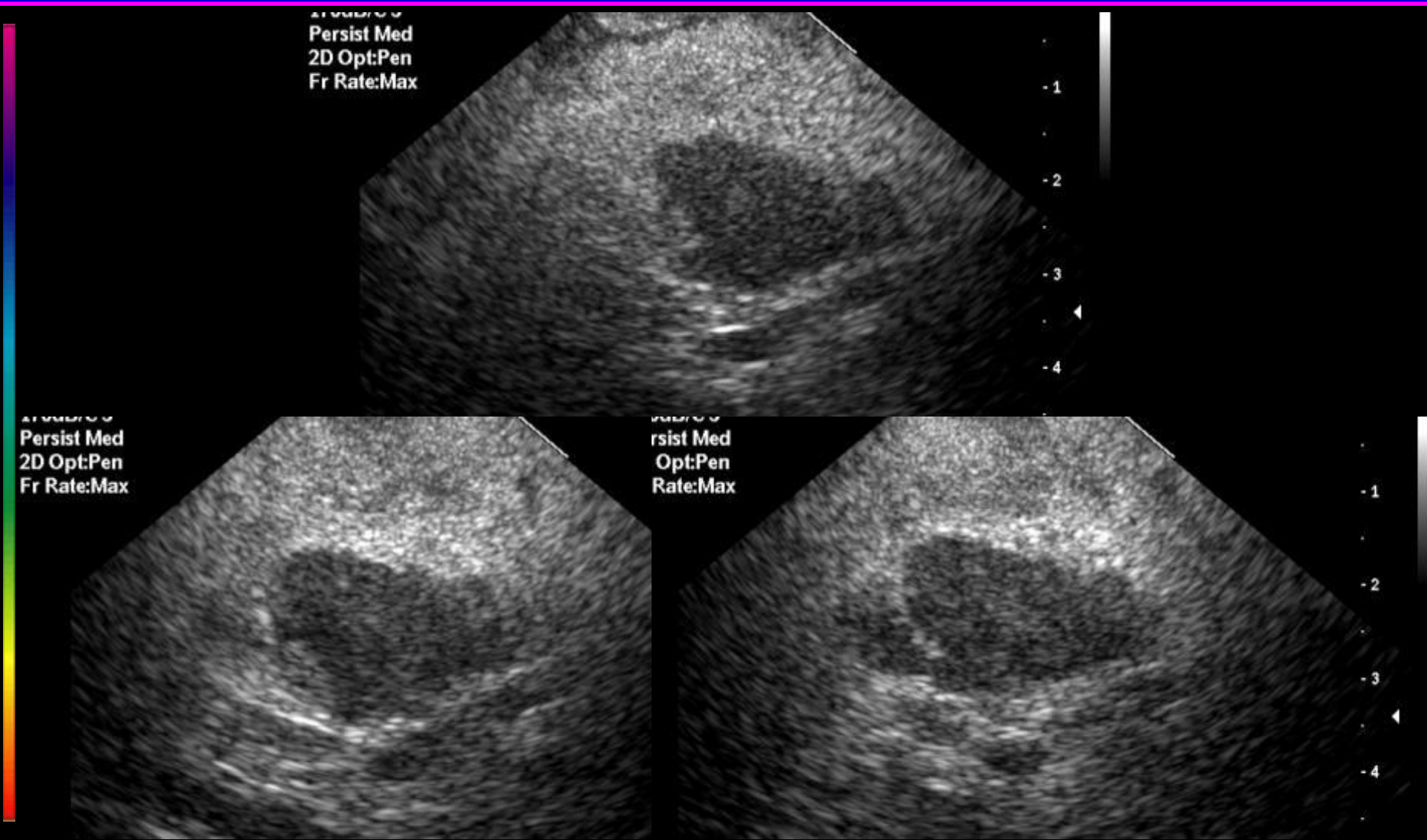


Pankreas

Na co se soustředit

**Muž roč. 43, neurčité bolesti, potíže
dlouhodobé, náhodný nález**

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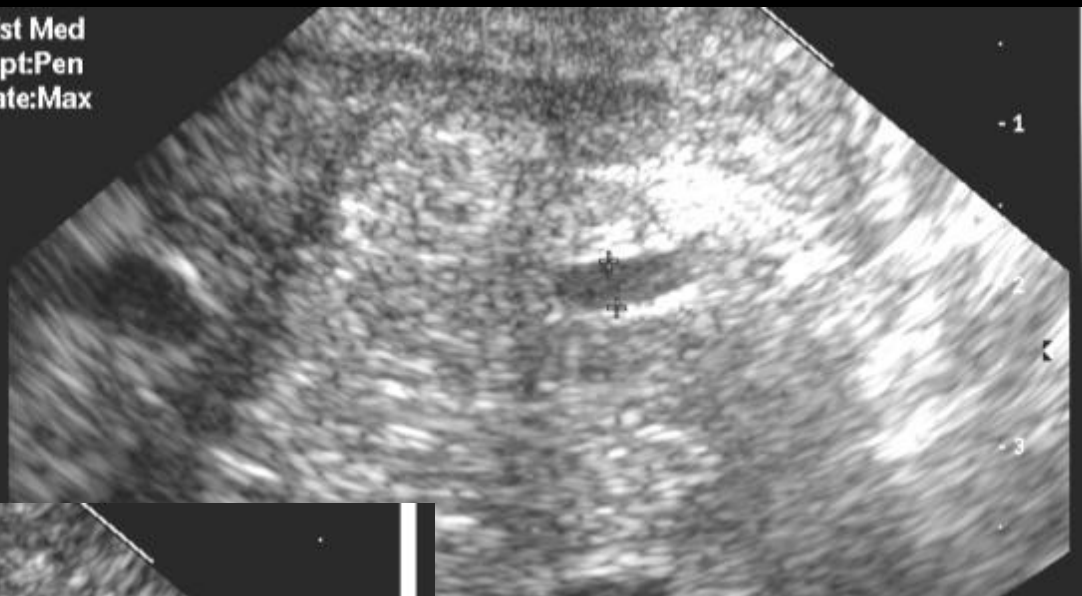
NET

Na co se soustředit

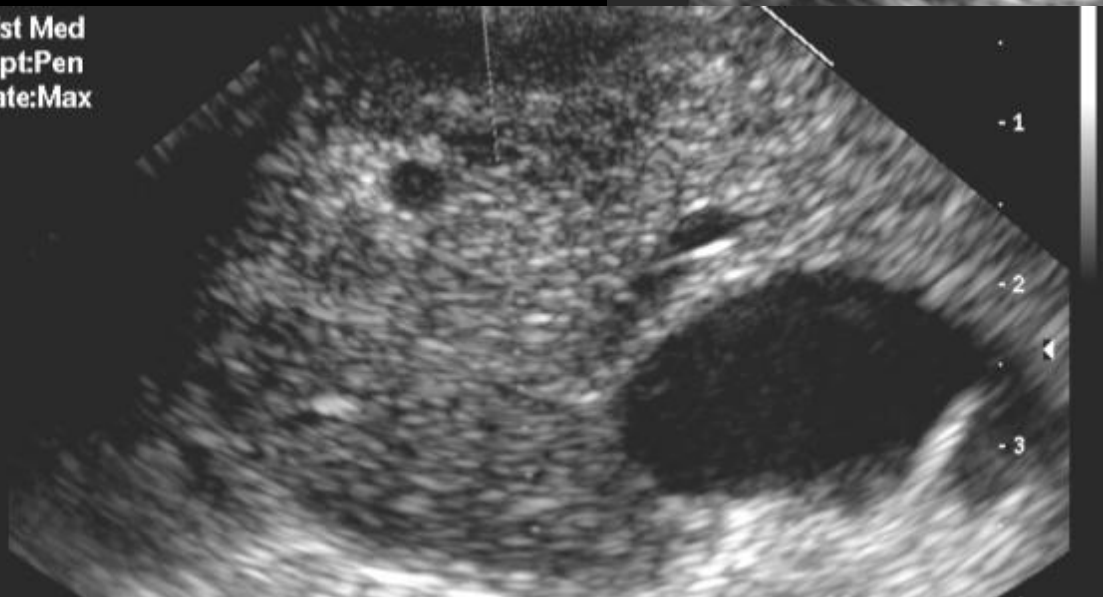
**Muž roč. 63, téměř půl roku trvající potíže
imponující jako pankreatitida**

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Persist Med
2D Opt:Pen
Fr Rate:Max



Persist Med
2D Opt:Pen
Fr Rate:Max



Pankreas, muž roč. 59



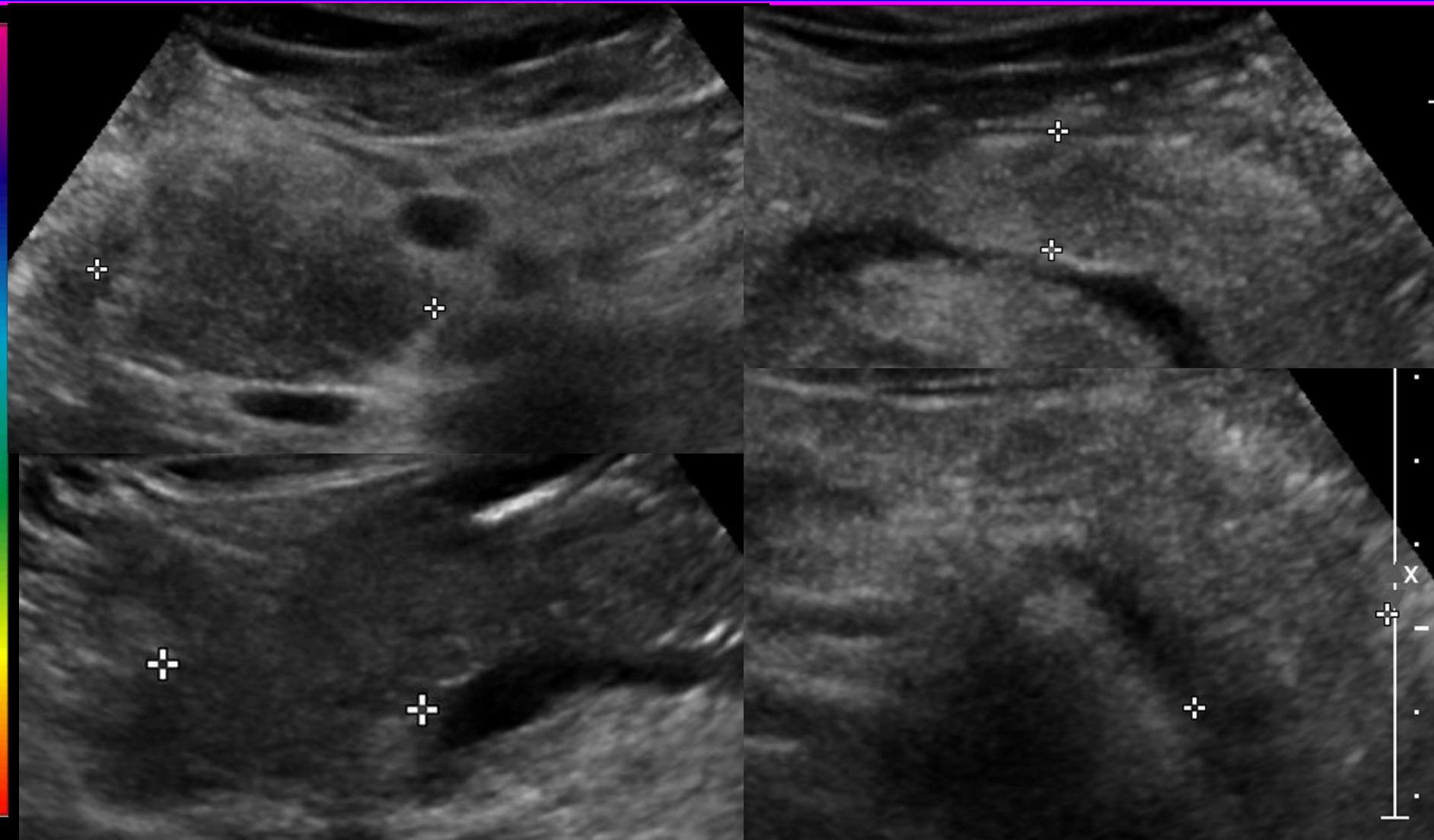
Žlábková pankreatitis



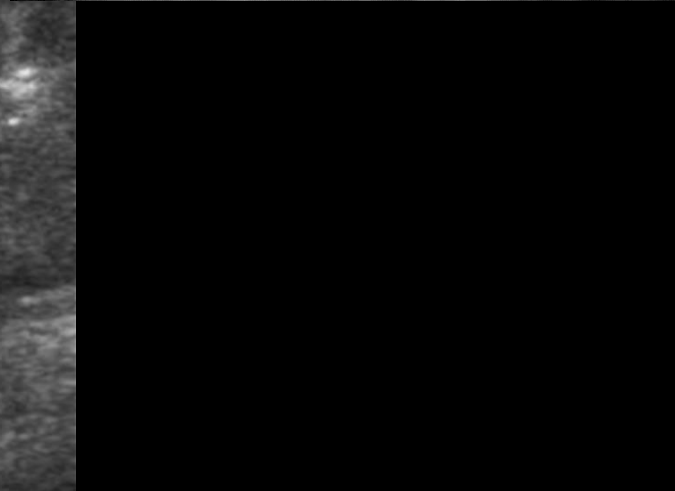
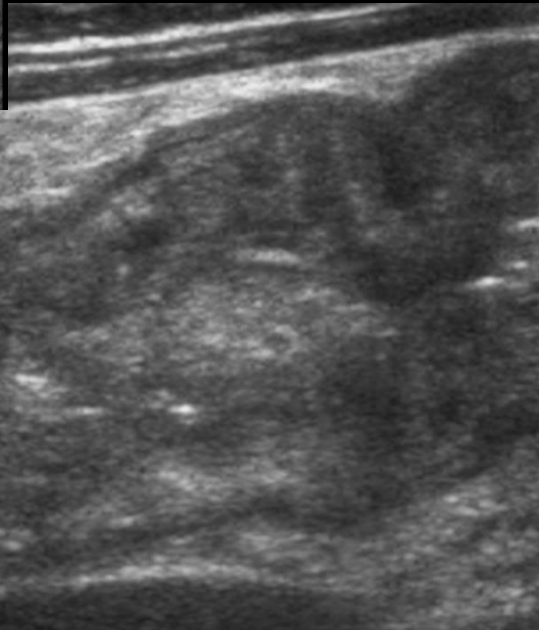
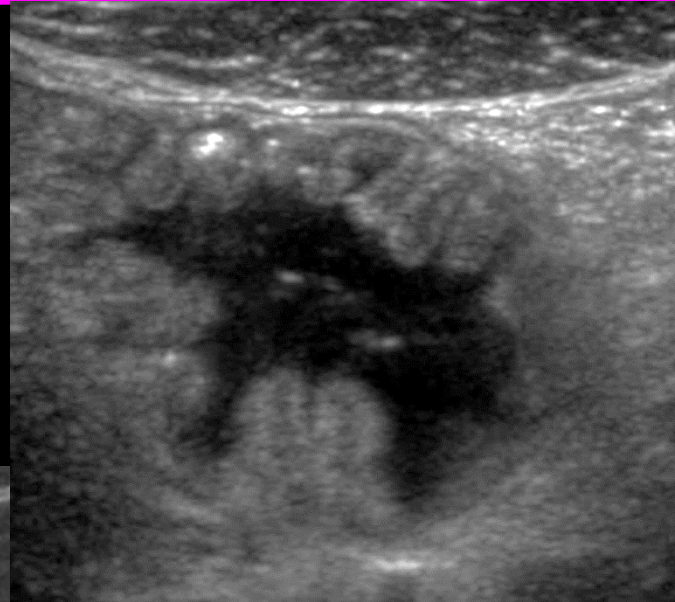
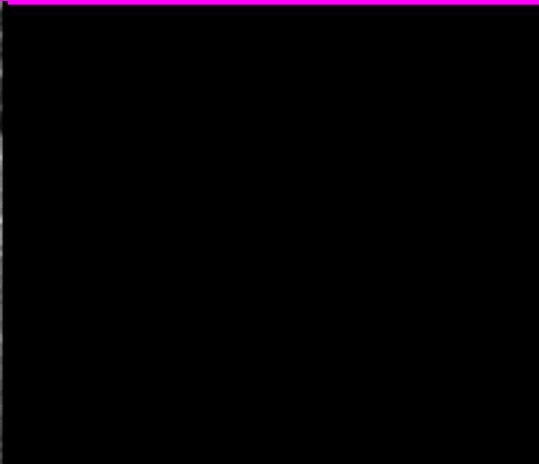
Na co se soustředit

Muž roč. 82, bolesti břicha, průjmy, občas krev ve stolici, hubne

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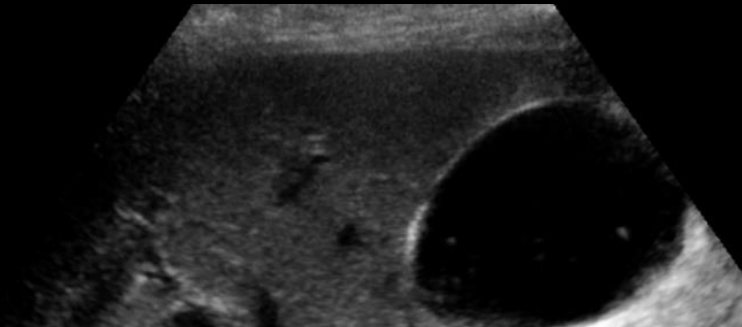
Autoimunitní pankreatitis



Autoimunitní pankreatitis



Pankreas



Autoimunitní pankreatitis



Benigní??

05

Serózní cystadenom



**Děkuji za
pozornost**