

1.



1.



- Natív CT / Nonenhanced CT
- Szubakut ischaemia a jobb a. cerebri media területén / Subacute ischaemia in territory of right middle cerebral artery
- Elmosódott cortex-fehérállomány határ az ödéma miatt / Cortical-subcortical border disappeared due to oedema
- Hiperdenzmedia-jel (Gács-jel; *nyíl*) / (Gács') hyperdense media sign (*arrow*)

2.



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2.



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- CT (natív), agyi ablakolás (ablakközép: 40 HU, ablakszélesség: 80 HU) / CT (unenhanced), brain window setting (window center: 40 HU; window width: 80 HU)
- Régi ischaemia jobb oldalon / Ischaemic lesion in chronic phase on the right side
- Az a. cerebri media területén / In territory of middle cerebral artery

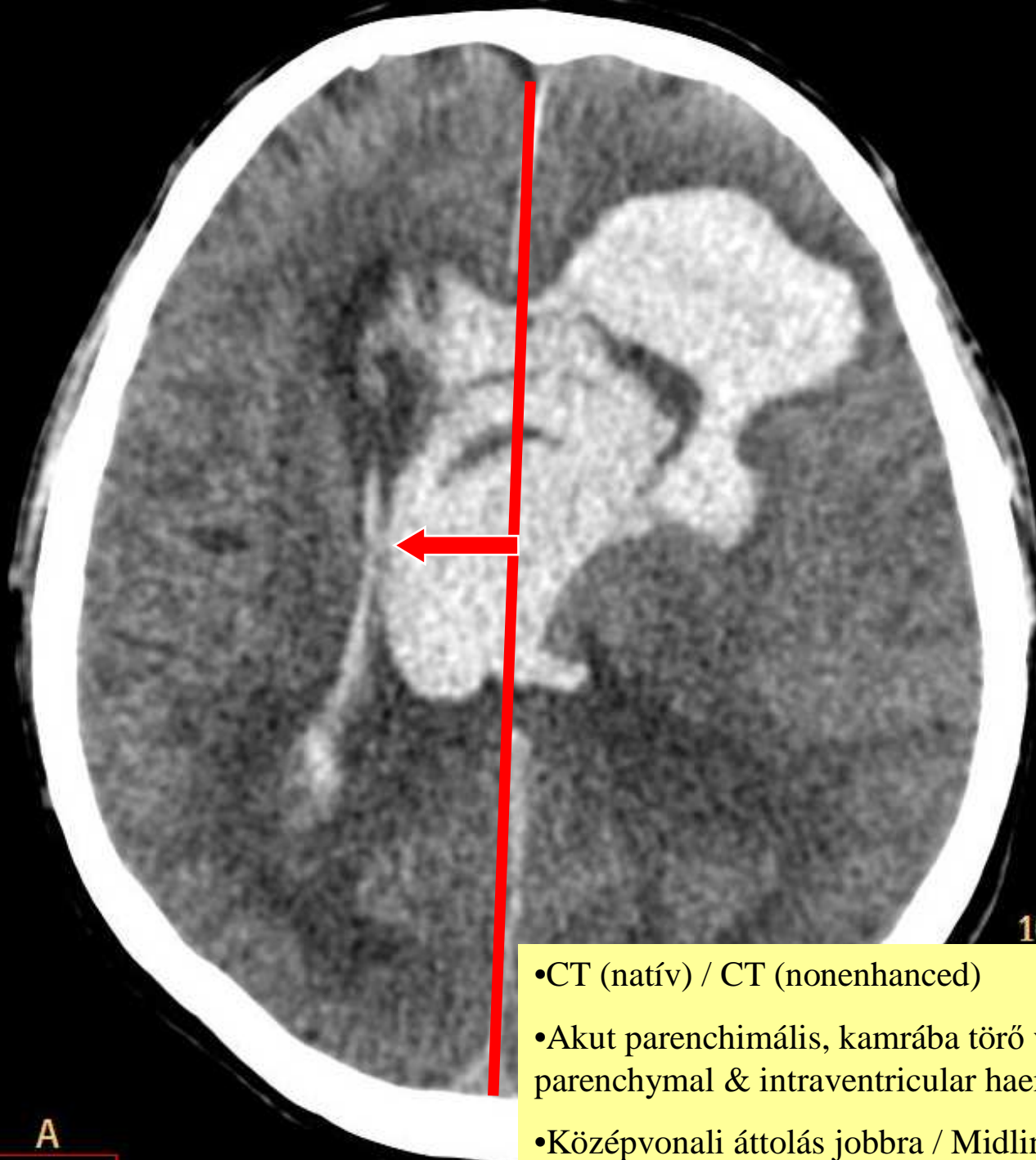
3.



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3.



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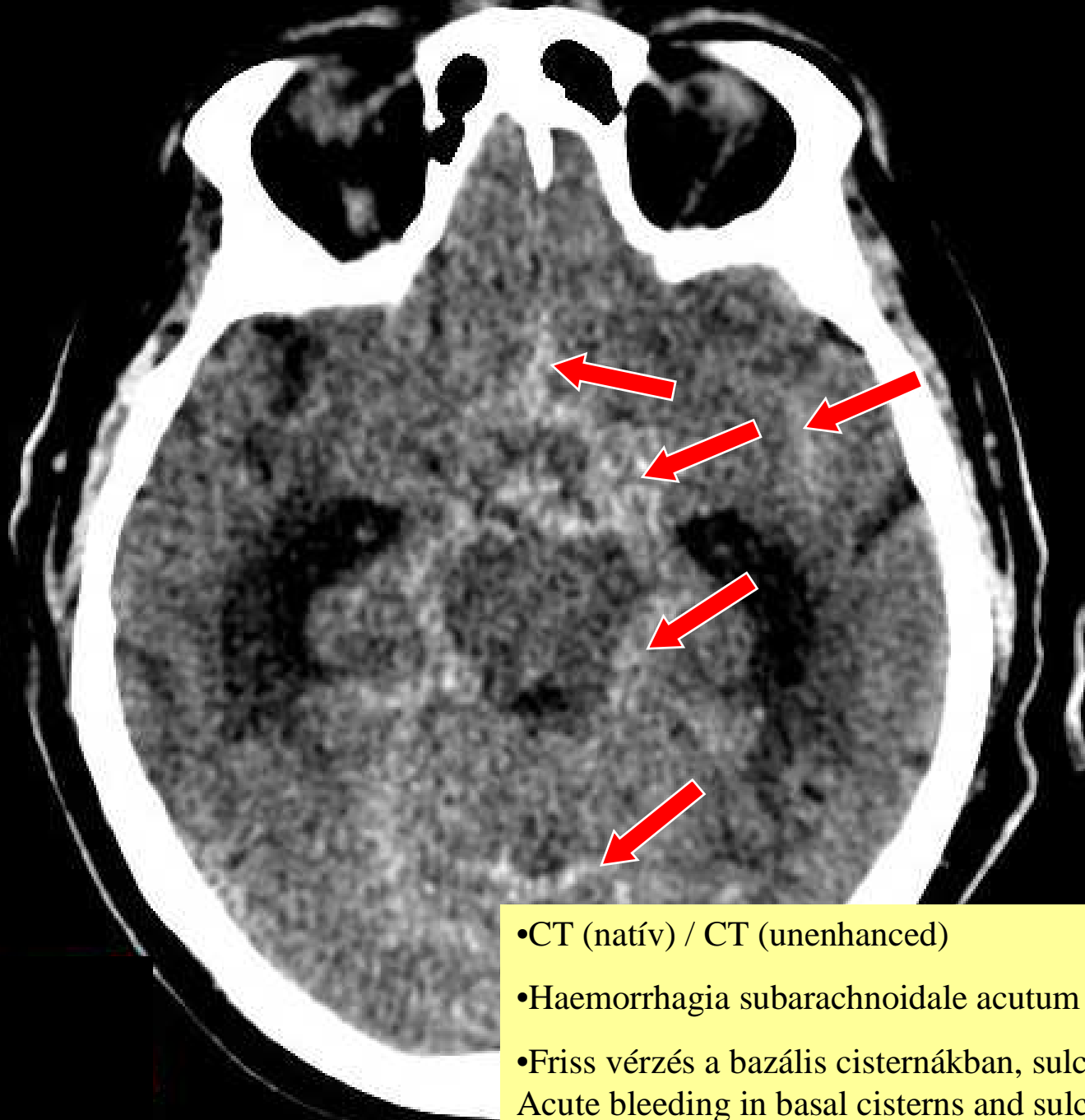
- CT (natív) / CT (nonenhanced)
- Akut parenchimális, kamrába törő vérzés / Acute parenchymal & intraventricular haemorrhage
- Középvonali áttolás jobbra / Midline shift to the right

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4.

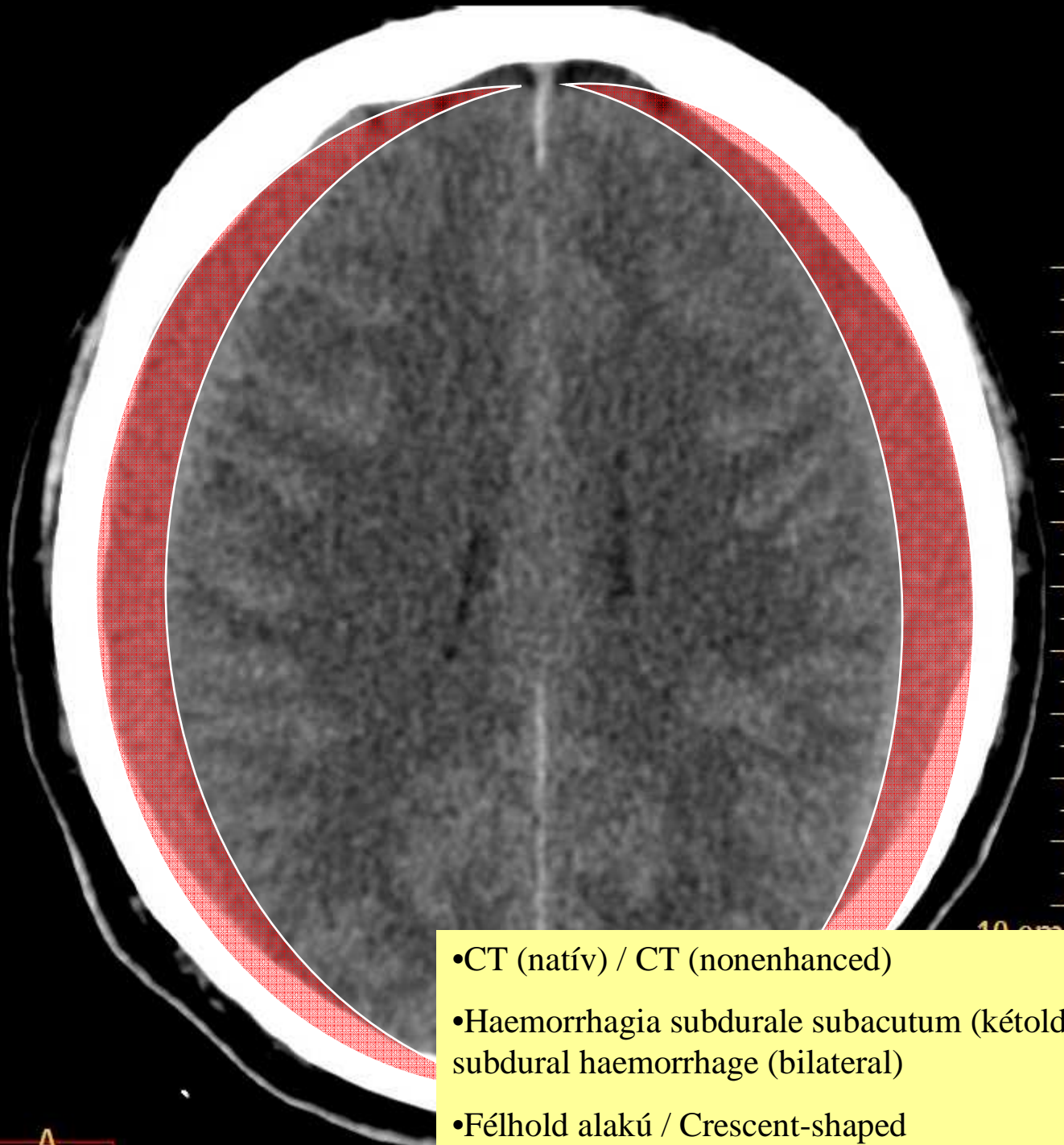


- CT (natív) / CT (unenhanced)
- Haemorrhagia subarachnoidale acutum
- Friss vérzés a bazális cisternákban, sulcusokban / Acute bleeding in basal cisterns and sulci

5.

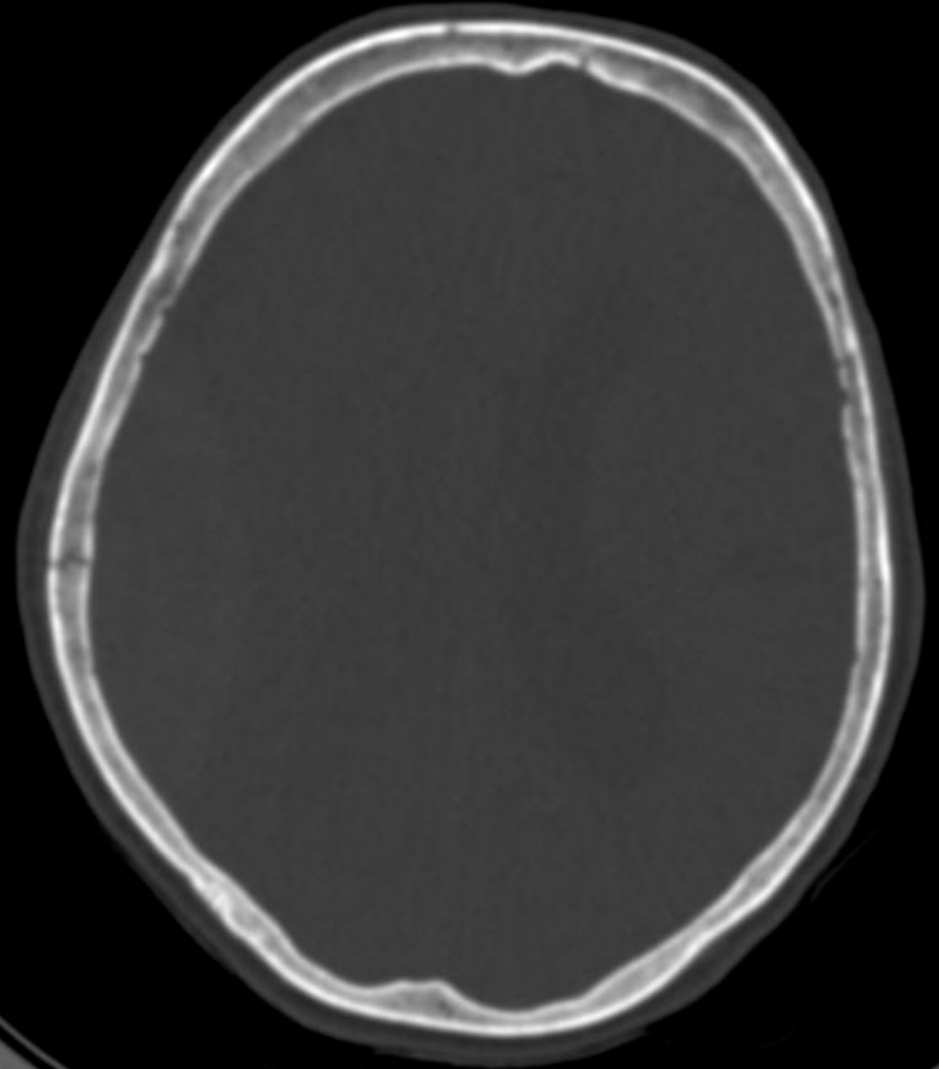


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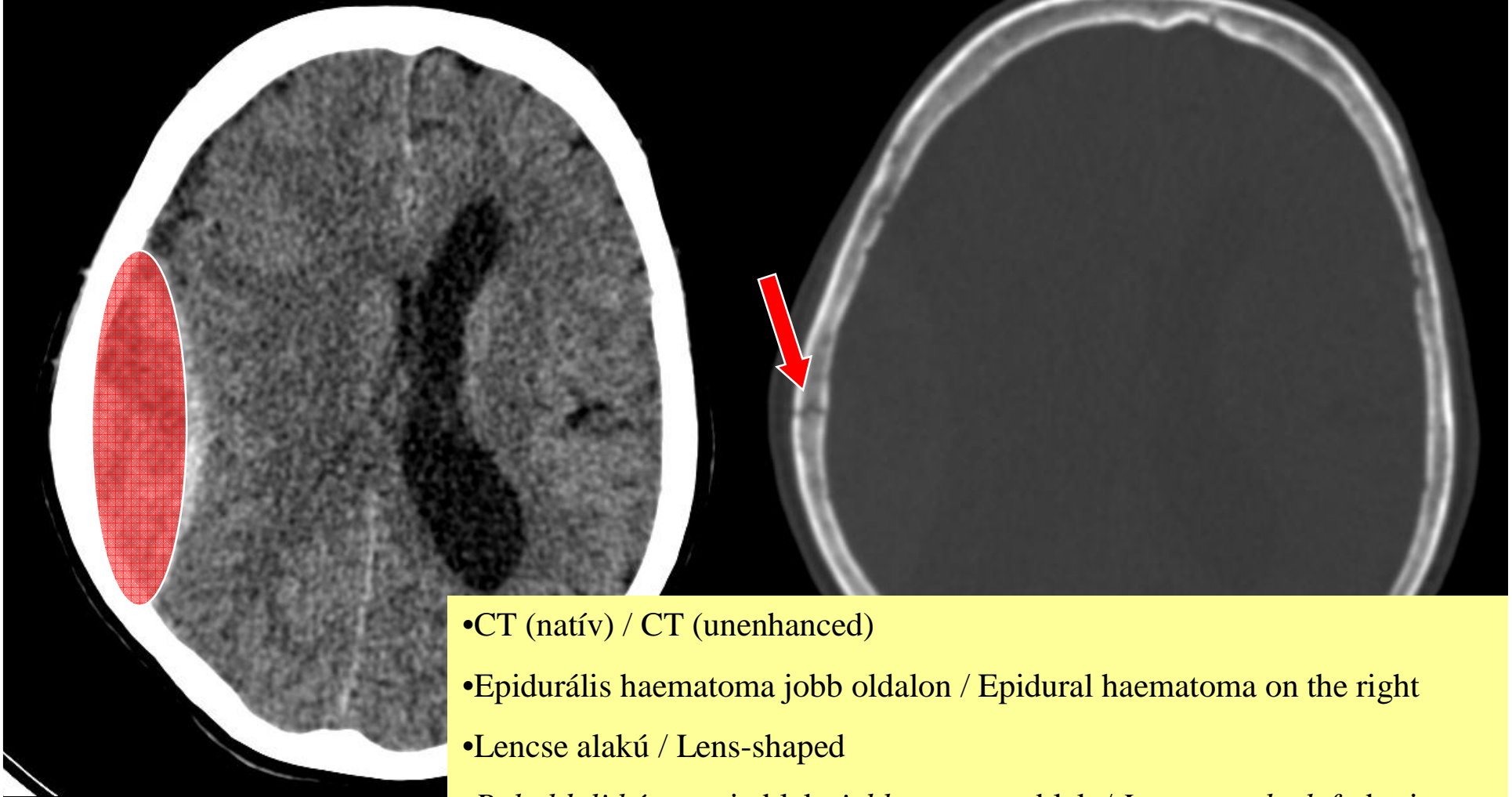


- CT (natív) / CT (nonenhanced)
- Haemorrhagia subdurale subacutum (kétoldali) / Subacute subdural haemorrhage (bilateral)
- Félhold alakú / Crescent-shaped

6.



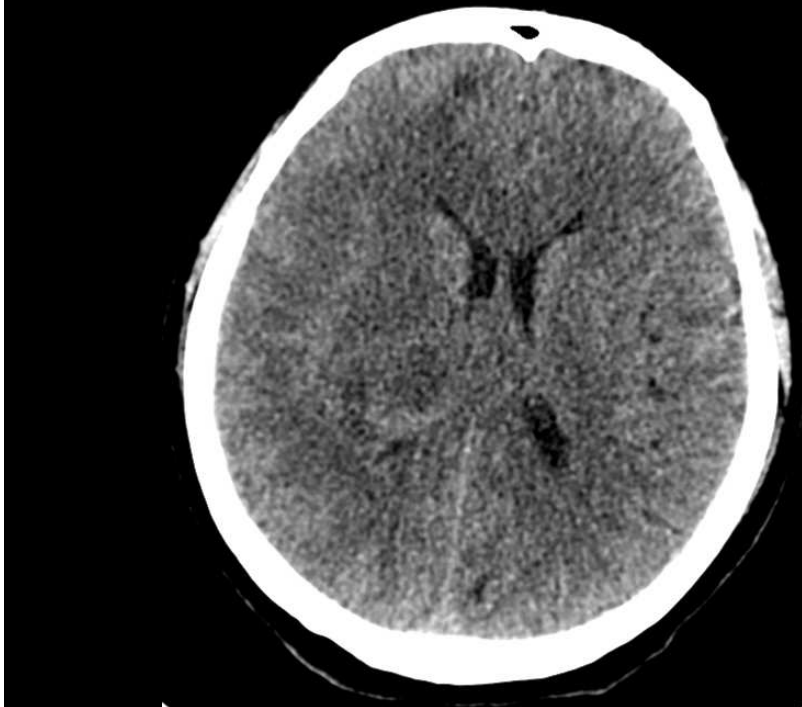
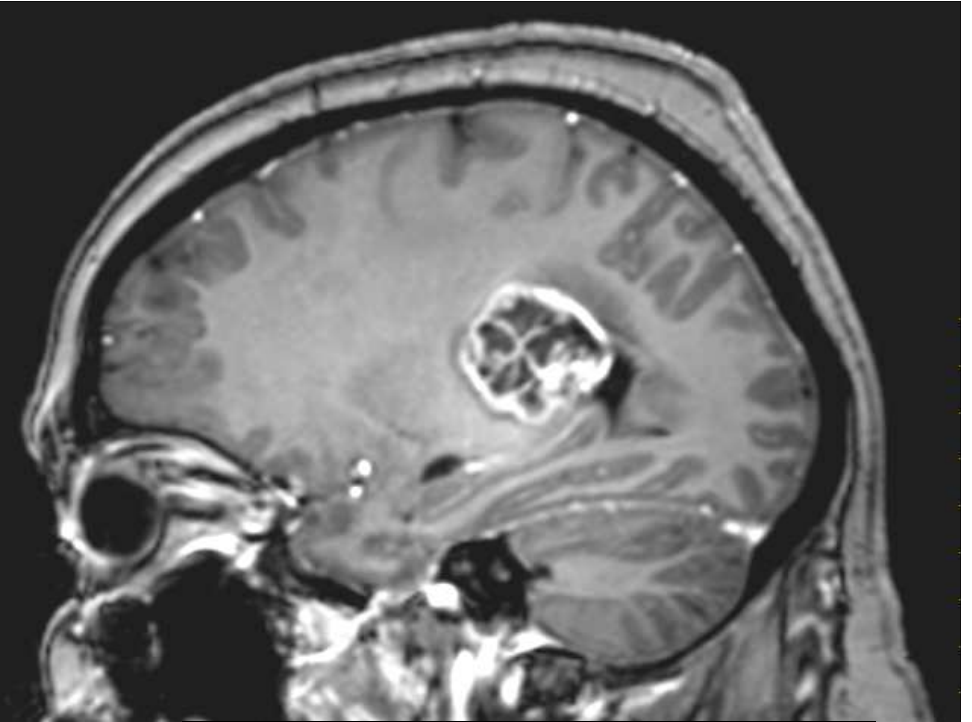
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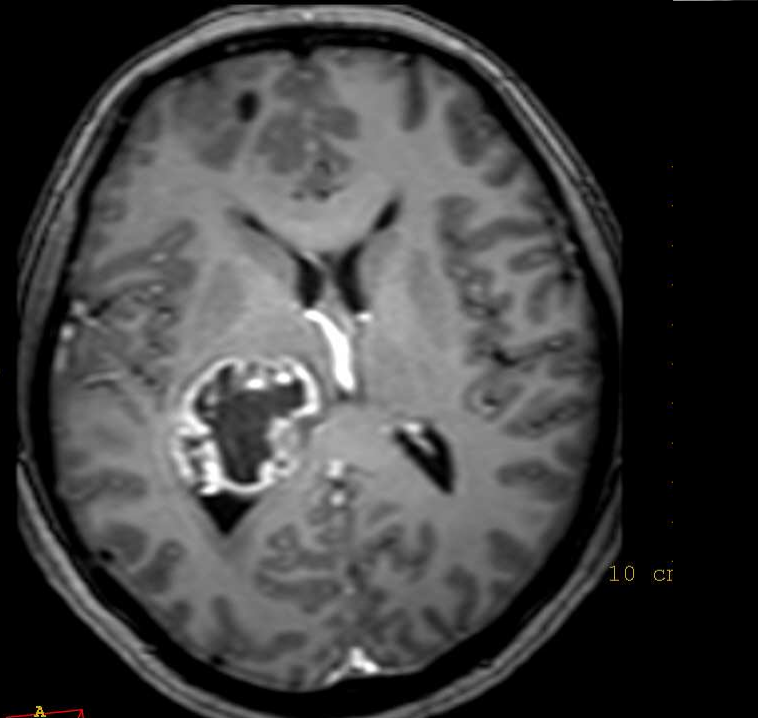
- CT (natív) / CT (unenhanced)
- Epidurális haematoma jobb oldalon / Epidural haematoma on the right
- Lencse alakú / Lens-shaped
- Bal oldali kép: agyi ablak; jobb o.: csontablak / Image on the left: brain window; right: bone window*
- Boltozati törés / Skull vault fracture

7.

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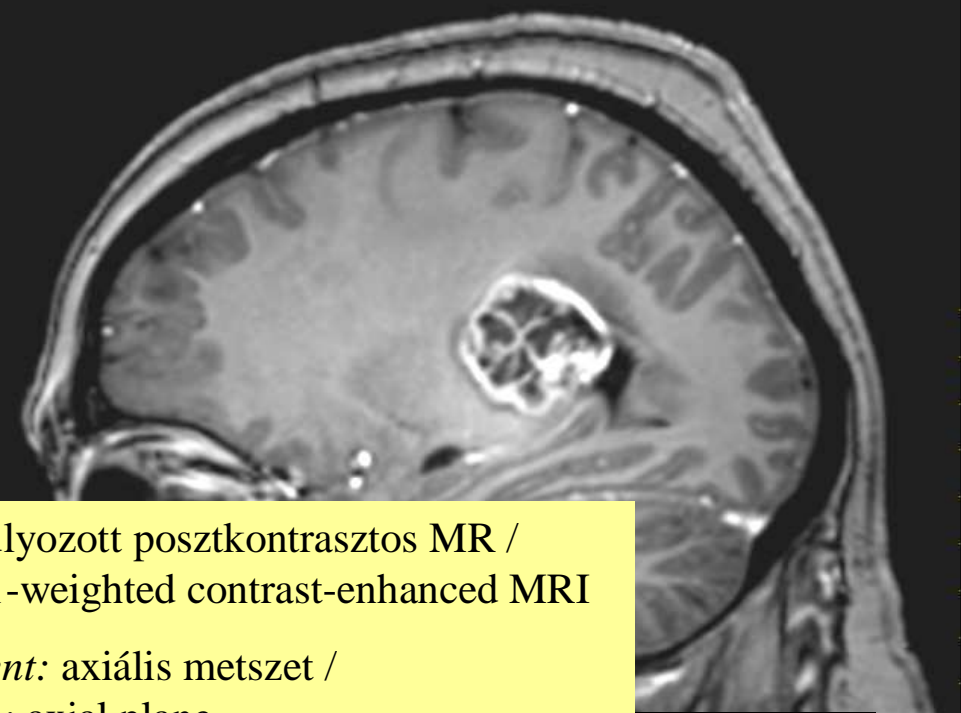
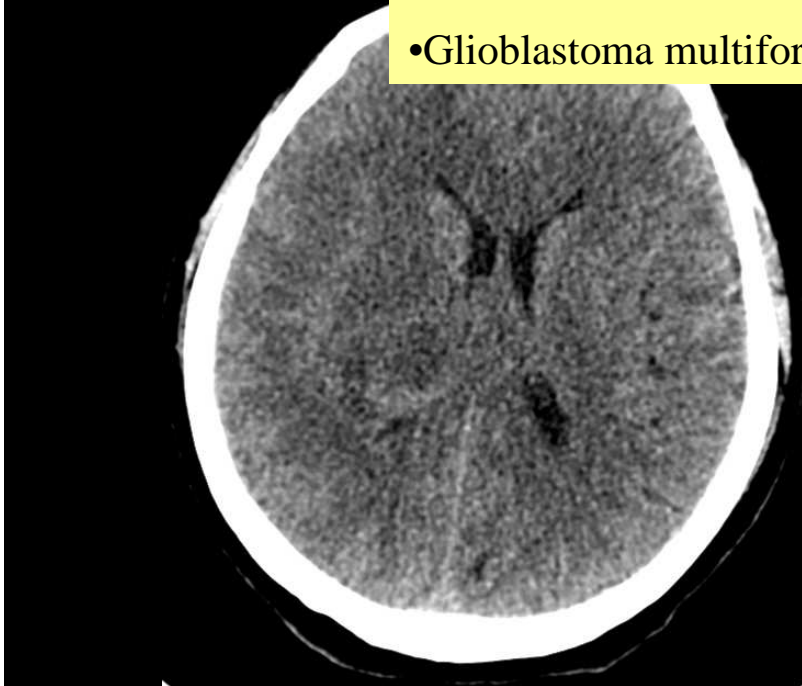


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7.

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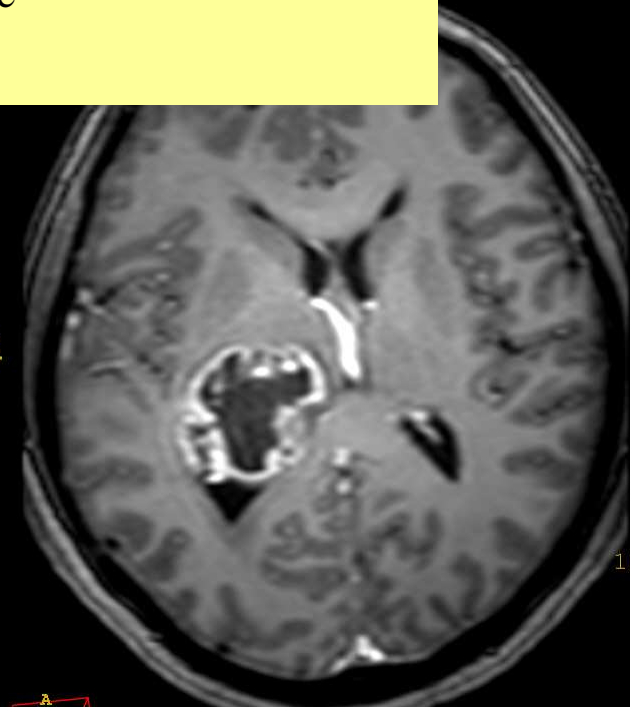


•*Bal o.:* natív CT; *jobb o.:* T1-súlyozott posztkontrasztos MR /
Left: nonenhanced CT; *right:* T1-weighted contrast-enhanced MRI

•*Fent:* parasagittális metszet, *lent:* axiális metszet /
Above: parasagittal plane, *below:* axial plane

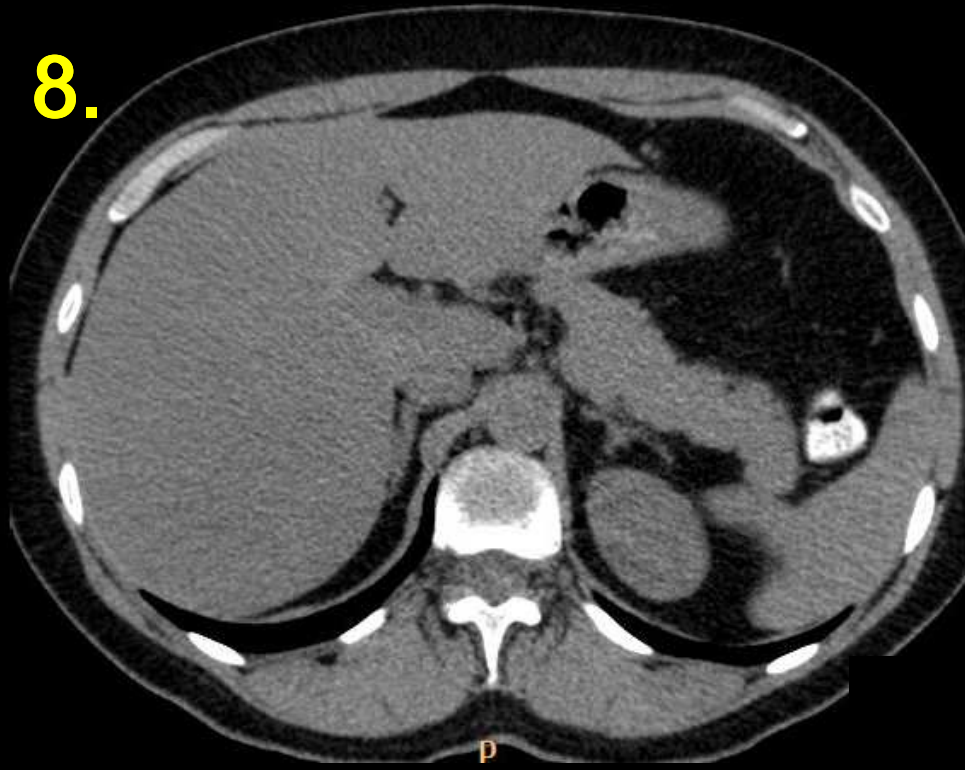
•Glioblastoma multiforme

R



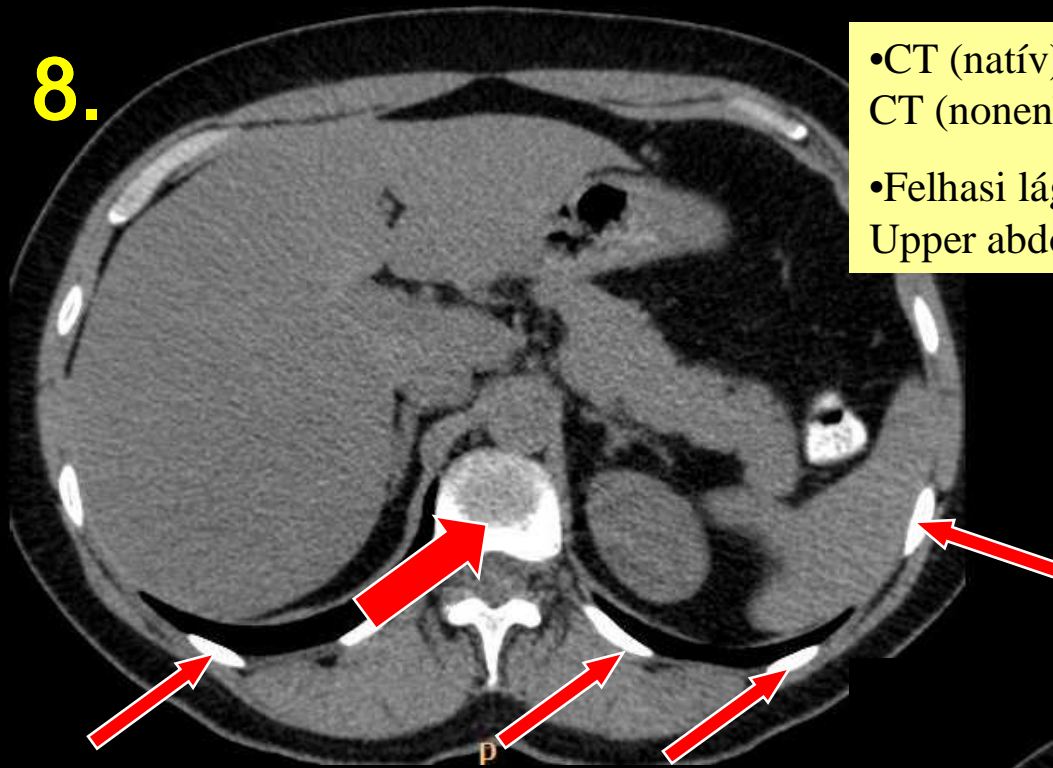
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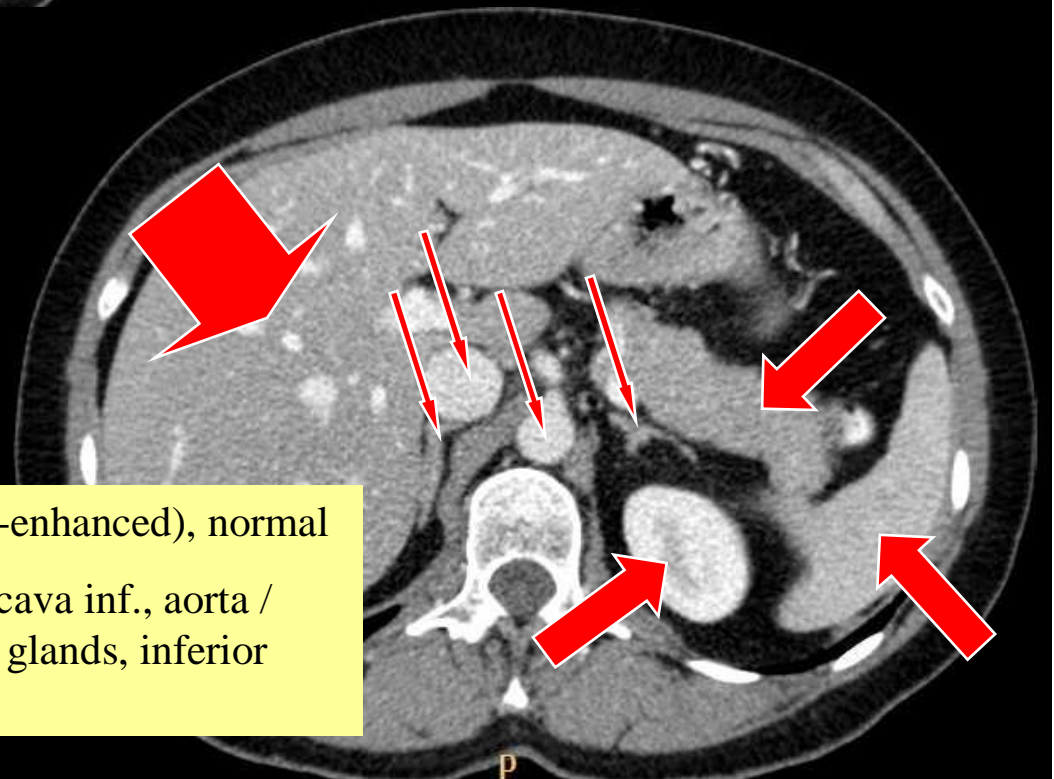


8.

- CT (natív), ép viszonyok / CT (nonenhanced), normal
- Felhasi lágyrészek, csigolya, bordák / Upper abdomen, vertebra, ribs



- CT (kontrasztos), ép viszonyok / CT (contrast-enhanced), normal
- Máj, pancreas, lép, bal vese, mellékvesék, v. cava inf., aorta / Liver, pancreas, spleen, left kidney, suprarenal glands, inferior vena cava, aorta



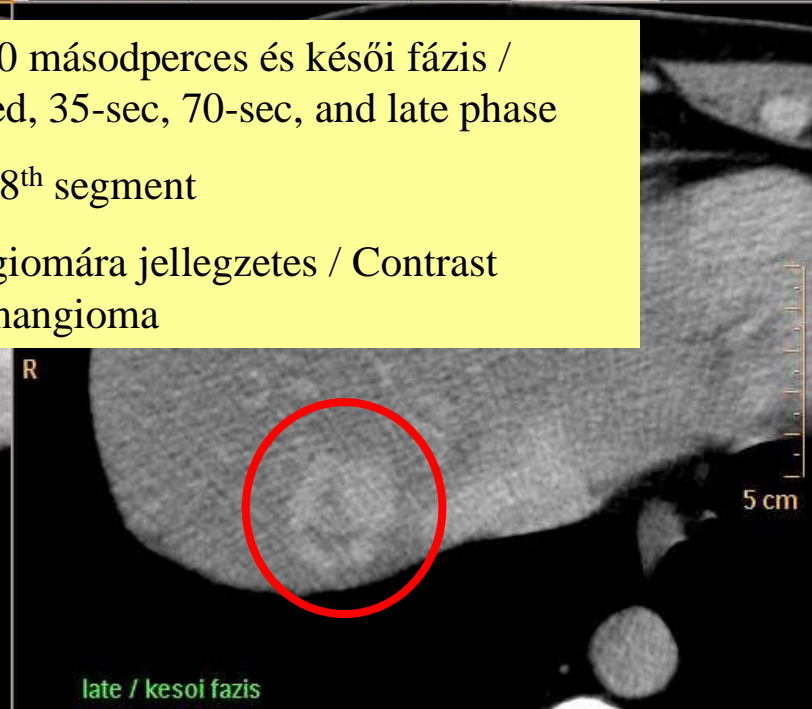
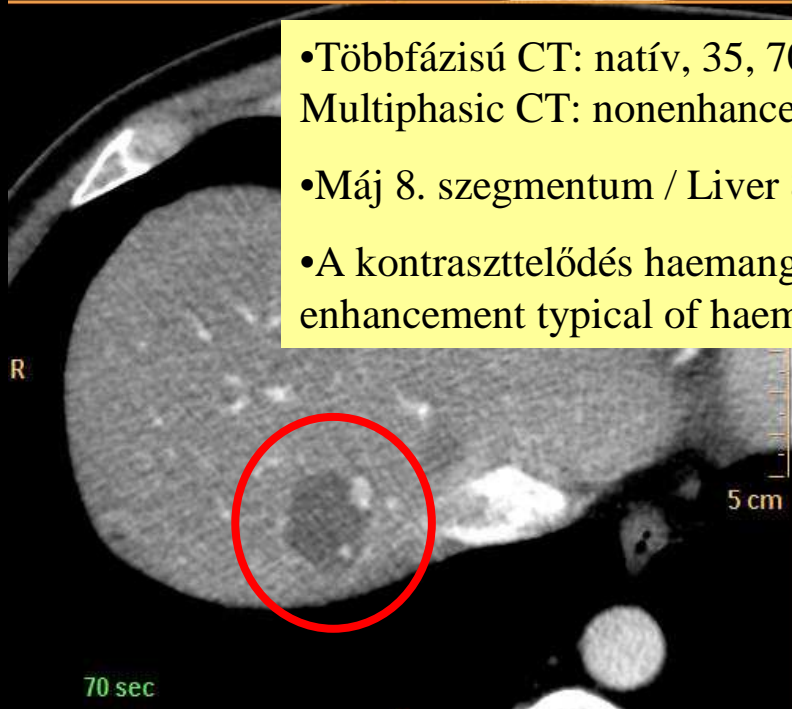
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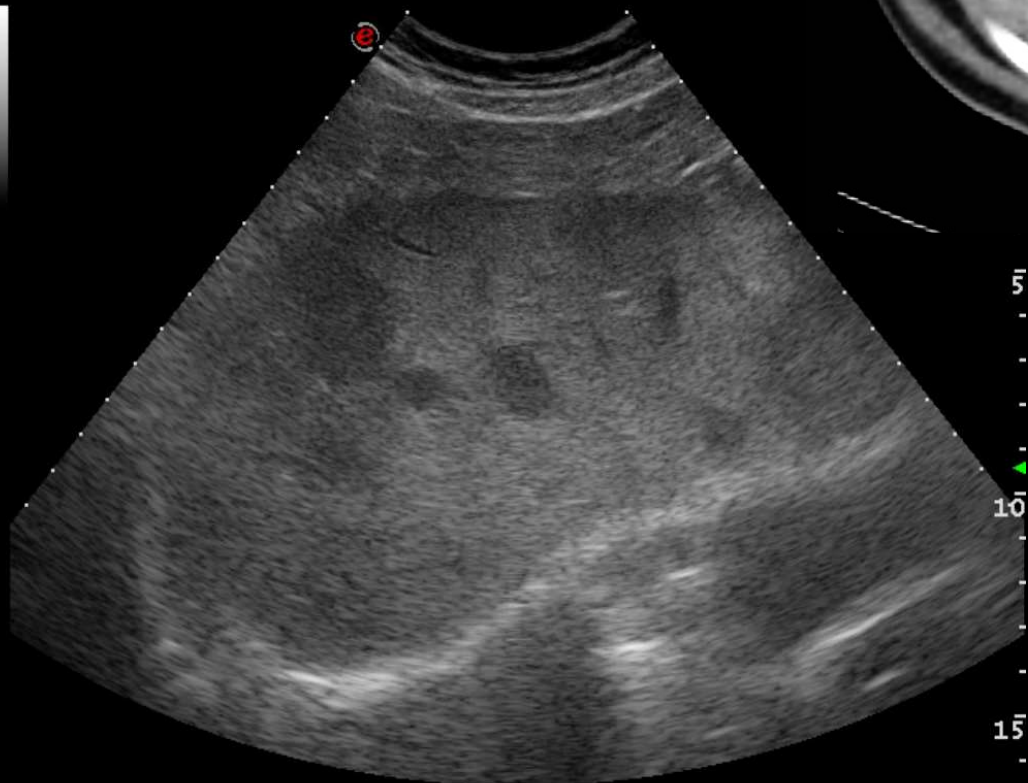
9.



- Többfázisú CT: natív, 35, 70 másodperces és késői fázis / Multiphasic CT: nonenhanced, 35-sec, 70-sec, and late phase
- Máj 8. szegmentum / Liver 8th segment
- A kontraszttelődés haemangiómára jellegzetes / Contrast enhancement typical of haemangioma

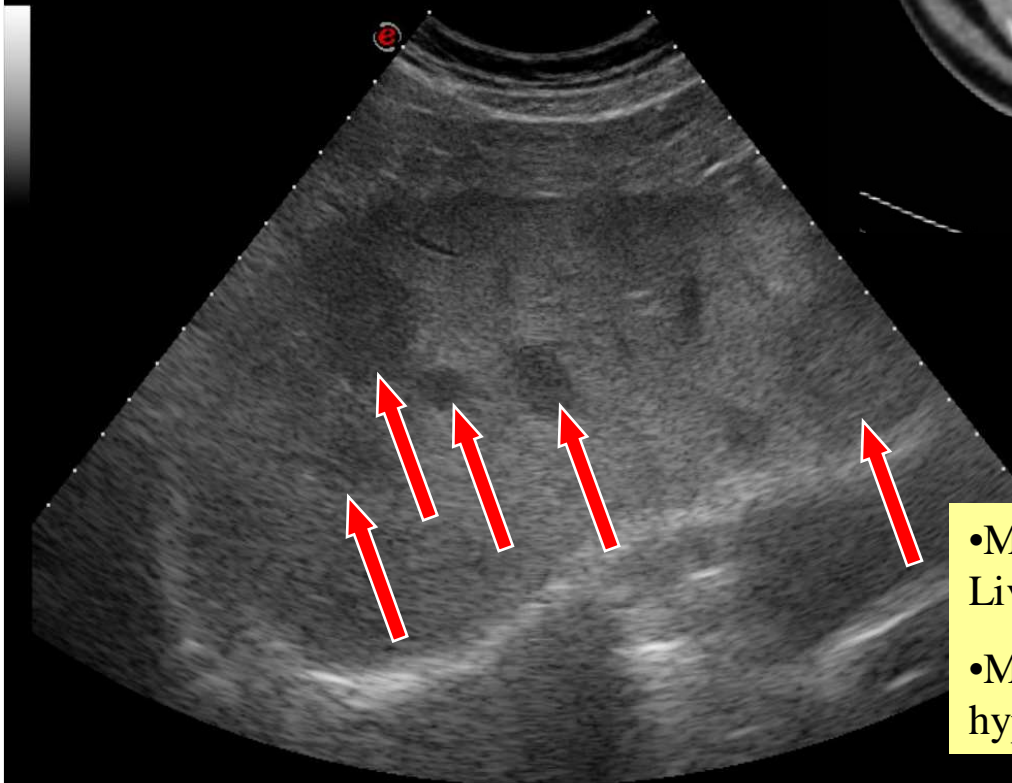
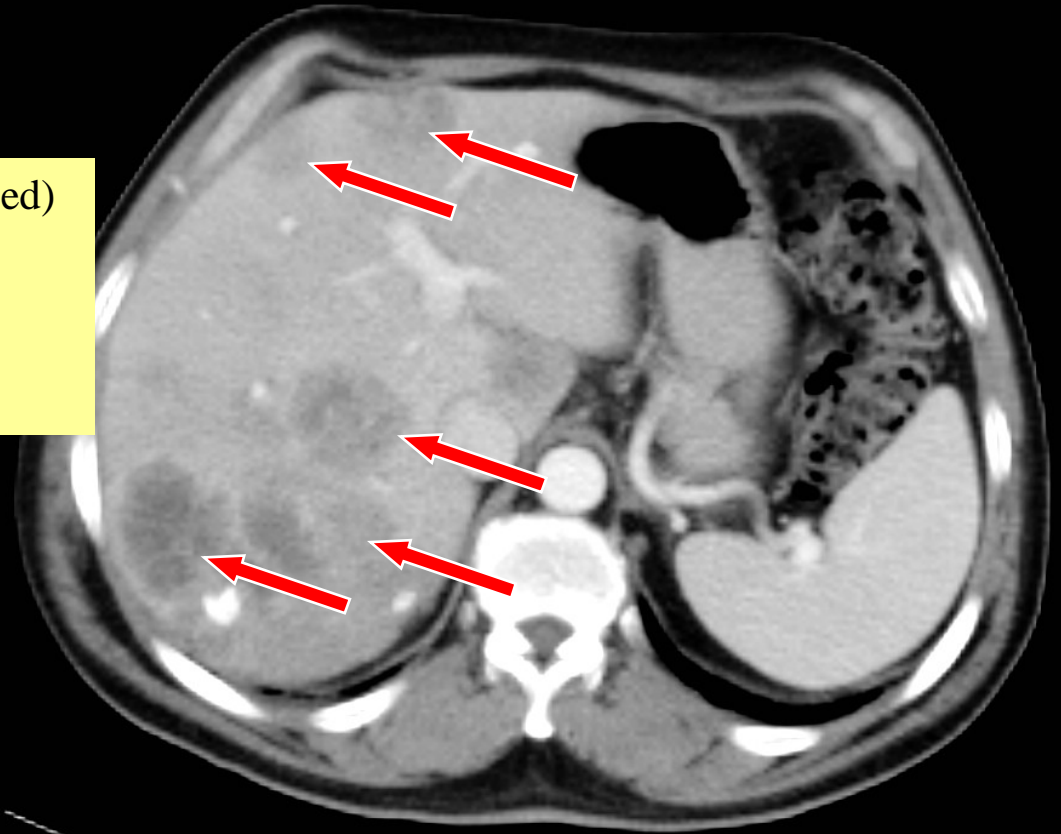


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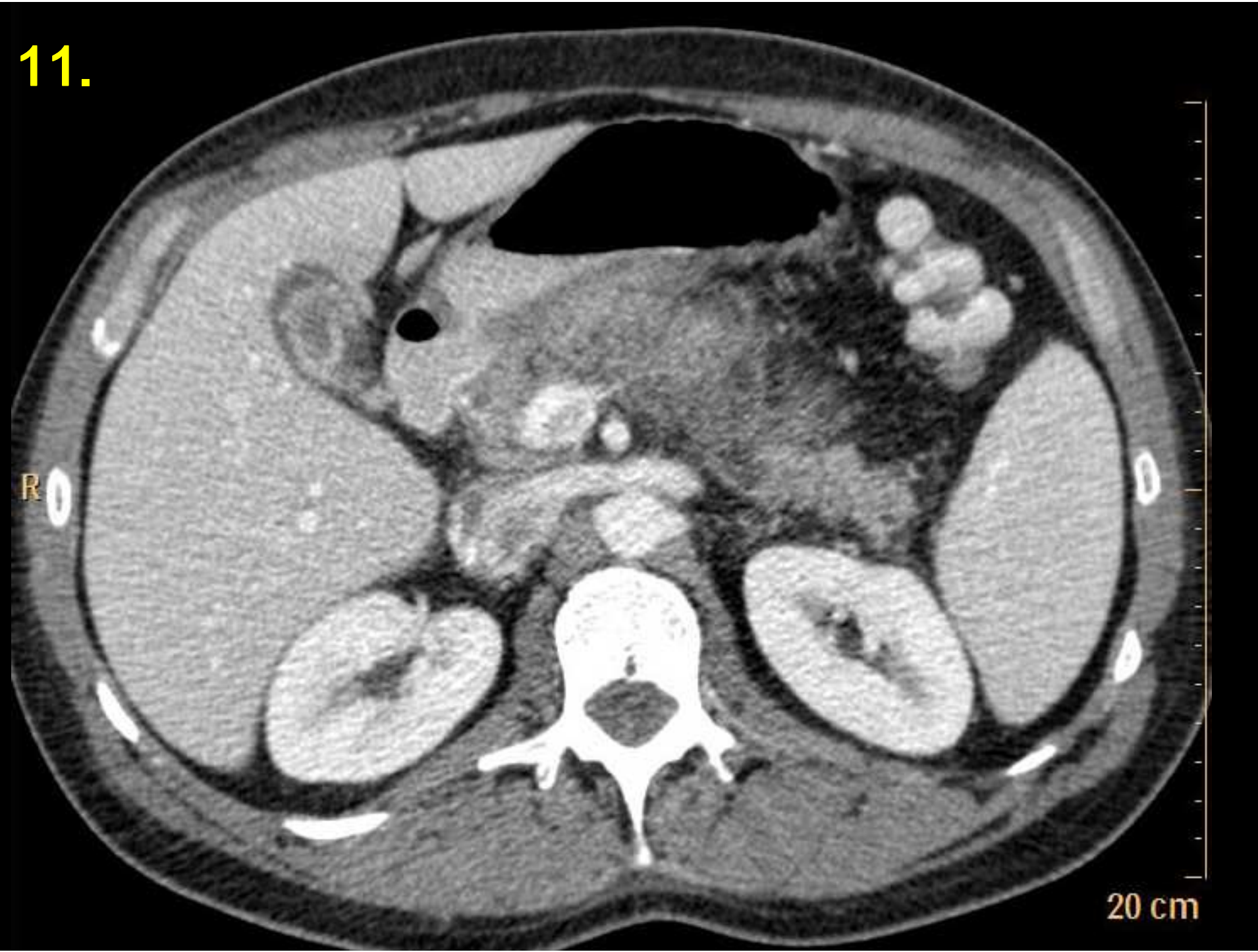
10.

- CT (iv. kontrasztdúsított) / CT (contrast-enhanced)
- Metastasis hepatis multiplex / Multiple liver metastases
- A lép szabályos / Normal spleen



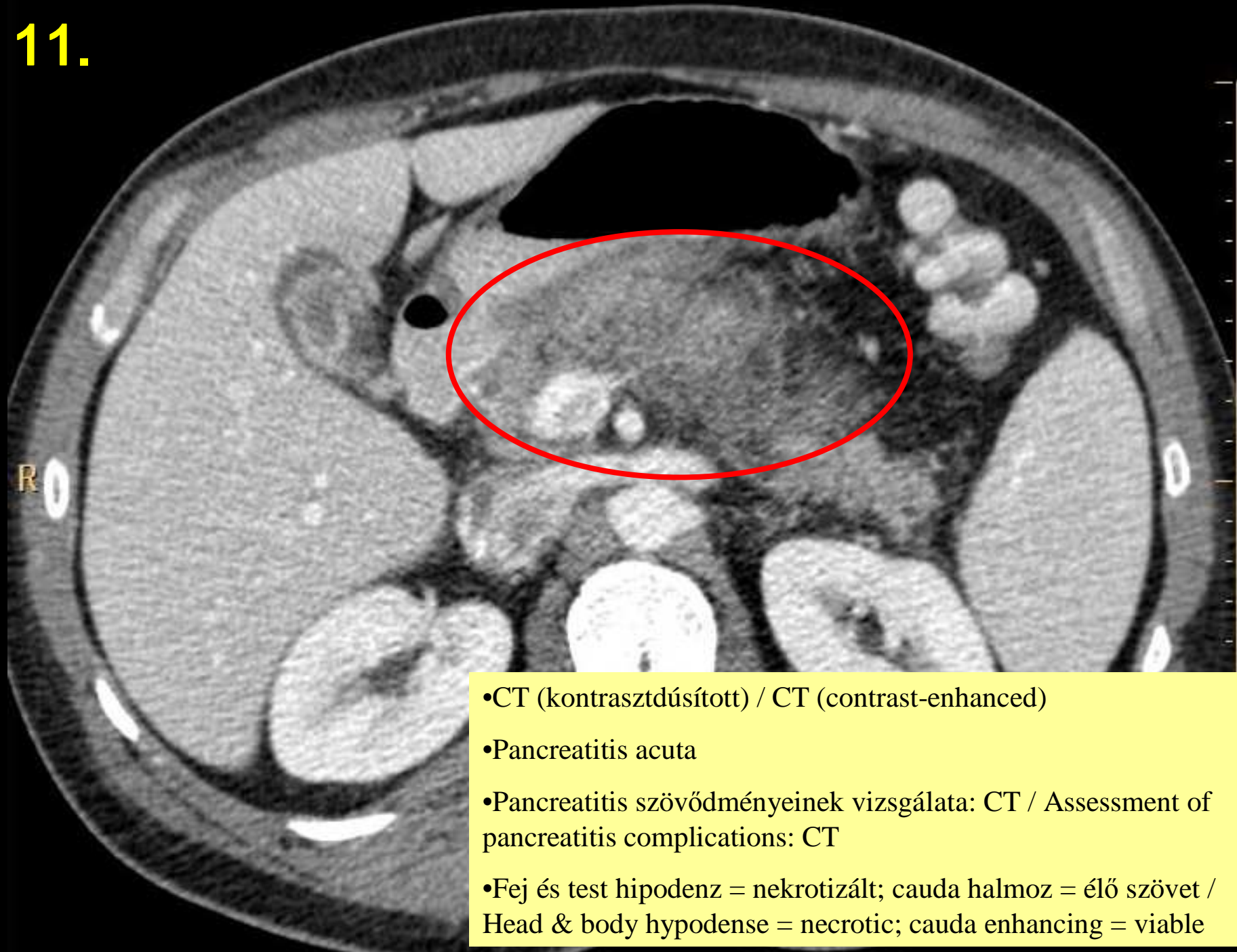
- Májultrahang, konvex transzducer (3,5–5 MHz) / Liver ultrasound with convex probe (3.5–5 MHz)
- Multiplex echószegény lézió / Multiple hypoechogenic foci

11.



20 cm

11.

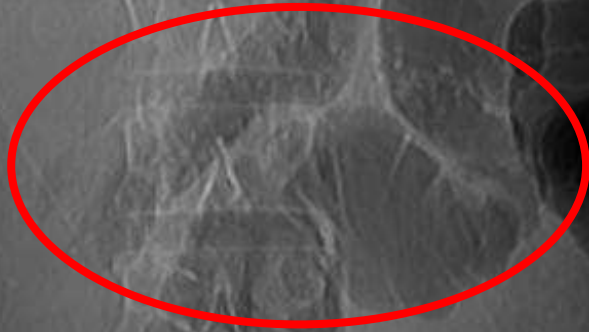


- CT (kontrasztduisított) / CT (contrast-enhanced)
- Pancreatitis acuta
- Pancreatitis szövődményeinek vizsgálata: CT / Assessment of pancreatitis complications: CT
- Fej és test hipodenz = nekrotizált; cauda halmoz = élő szövet / Head & body hypodense = necrotic; cauda enhancing = viable

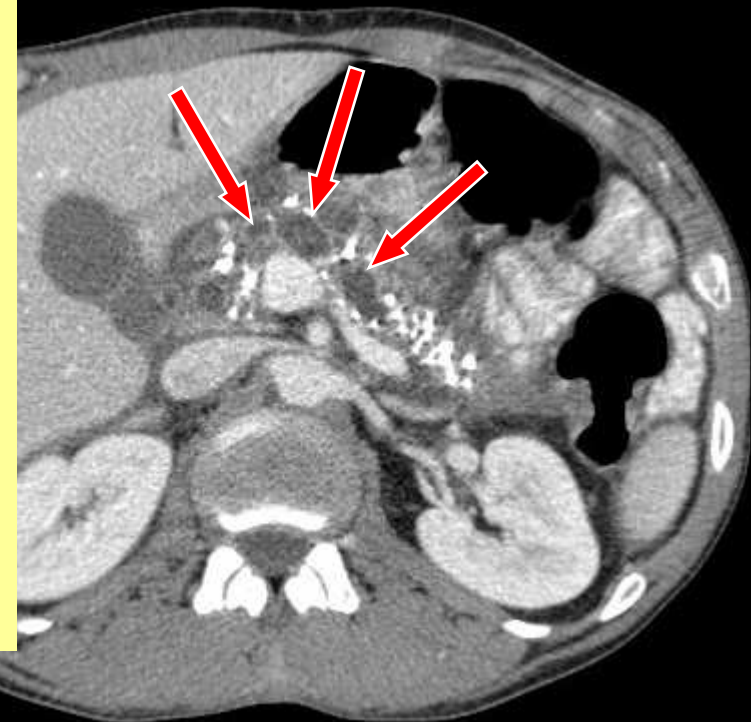
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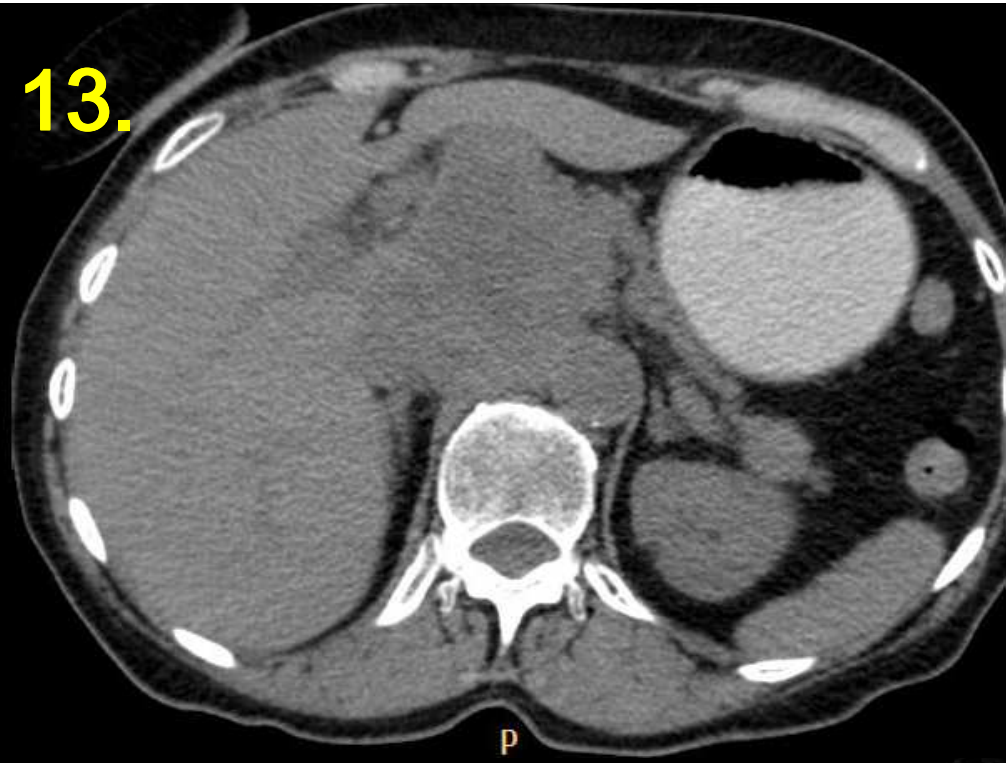
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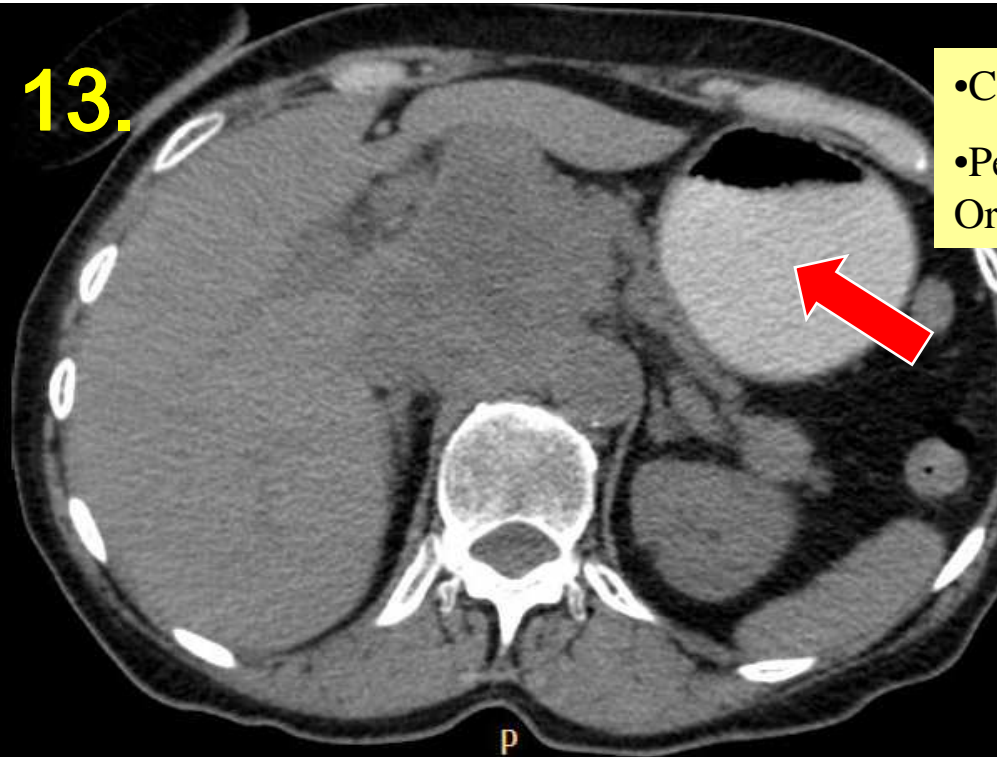
- Bal o.:* CT-topogram / *Left:* CT scout view
- Jobb o. fent:* natív CT-kép / *Right side above:* nonenhanced CT scan
- Jobb o. lent:* kontrasztos CT-kép / *Right side below:* contrast-enhanced CT scan
- Natív képeken: pancreasmeszesedés (*bekarikázva*) / On nonenhanced scans: calcification in pancreas (*ellipses*)
- A ductus pancreaticus maior egyenetlen tágulata (*nyilak*) / Beaded dilatation of the pancreatic duct (*arrows*)
- Pancreatitis chronica



13.



13.



- CT (natív) / CT (unenhanced)
- Per os kontrasztanyag a gyomorban / Oral contrast material in the stomach



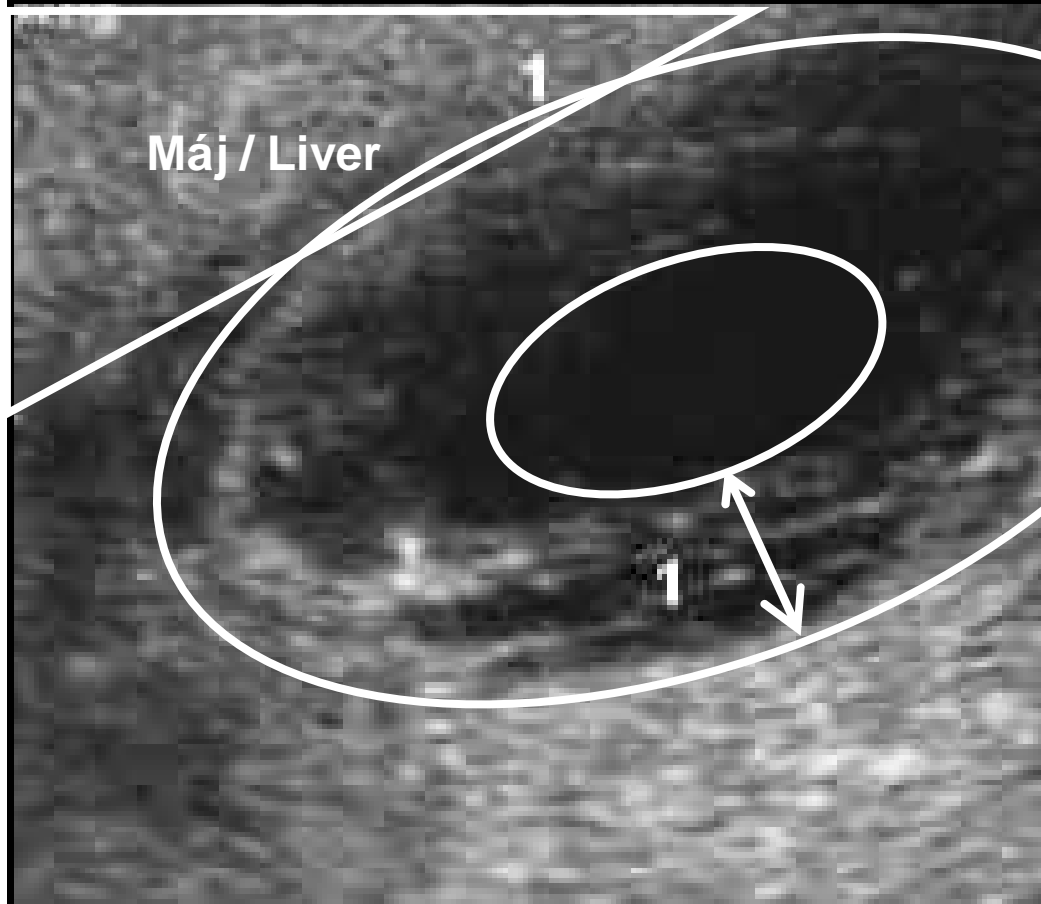
- CT (kontrasztos) / CT (contrast-enhanced)
- Infiltratív pancreasfeji térfoglalás: malignus tumor / Infiltrative mass in pancreatic head: malignant tumour
- Tumor közepe hipodenz = nekrotikus / Hypodense tumour centre: necrosis

14.



14.

- Epehólyag ultrahangképe / Sonogram of gallbladder
- Vastag, rétegzett fal, ödéma / Thick, stratified wall, oedematous



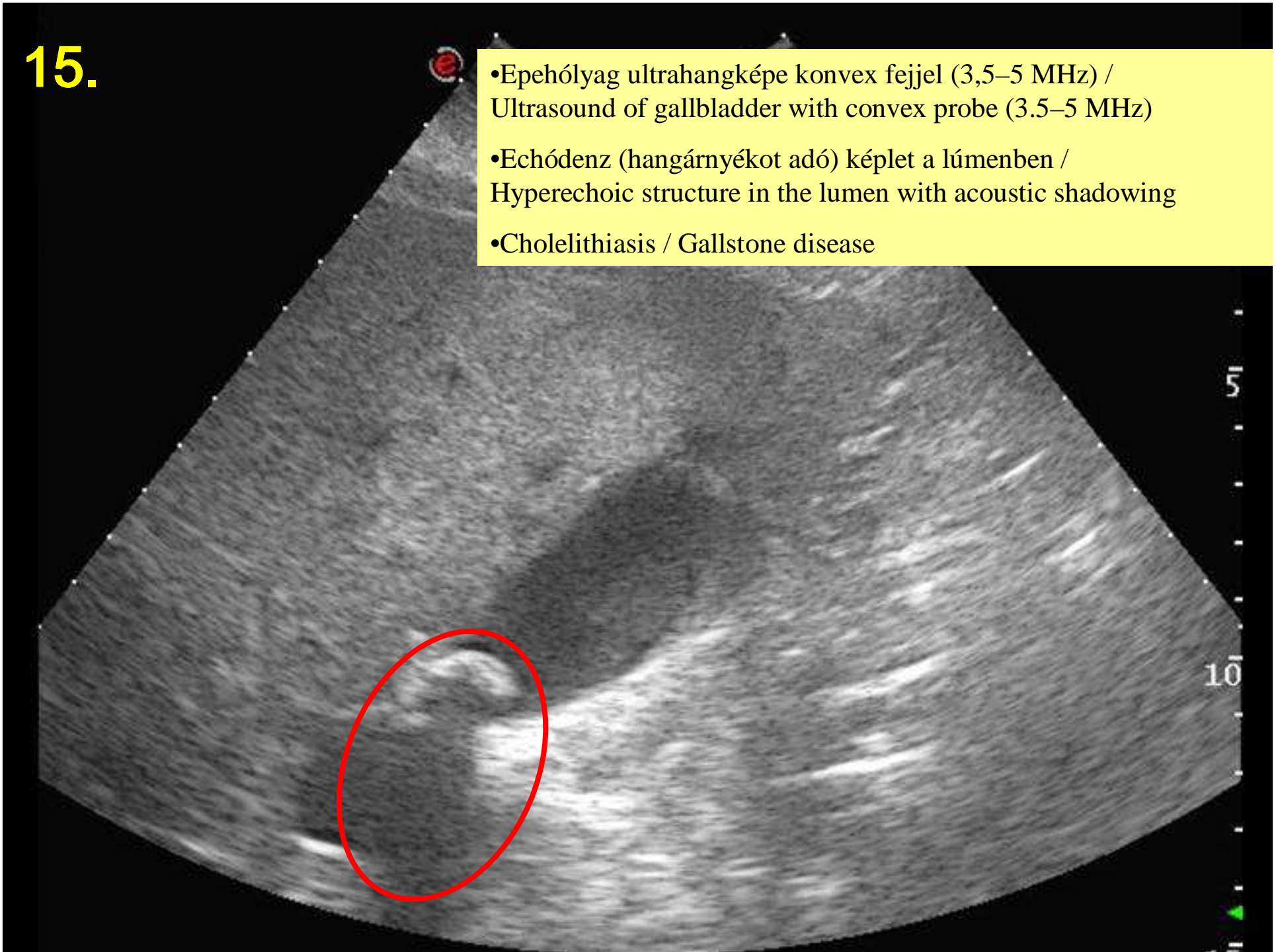
- Fokozott Doppler-jel a falban = hipervaszkuarizáció / Increased Doppler signal in the wall = hypervascularisation
- Cholecystitis ACUTA

15.



15.

- Epehólyag ultrahangképe konvex fejjel (3,5–5 MHz) /
Ultrasound of gallbladder with convex probe (3.5–5 MHz)
- Echódenz (hangárnyékot adó) képlet a lúmenben /
Hyperechoic structure in the lumen with acoustic shadowing
- Cholelithiasis / Gallstone disease



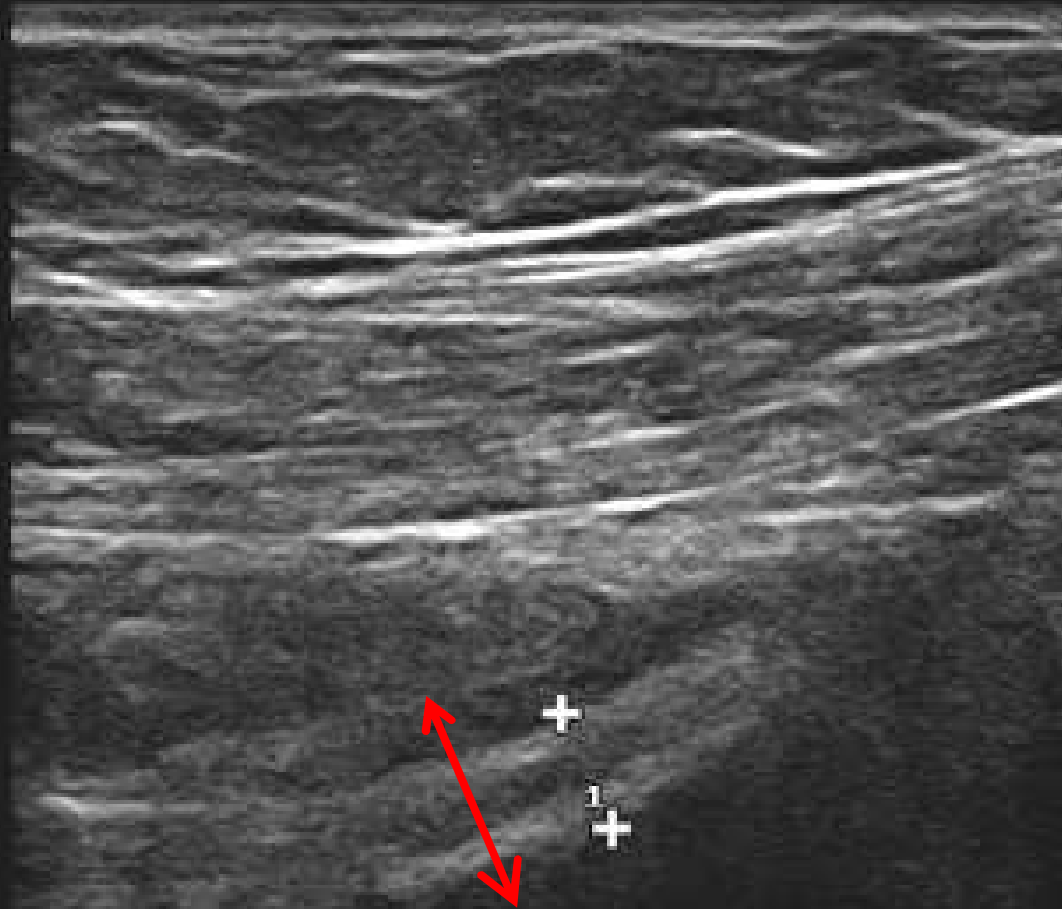
16.



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3
4
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16.



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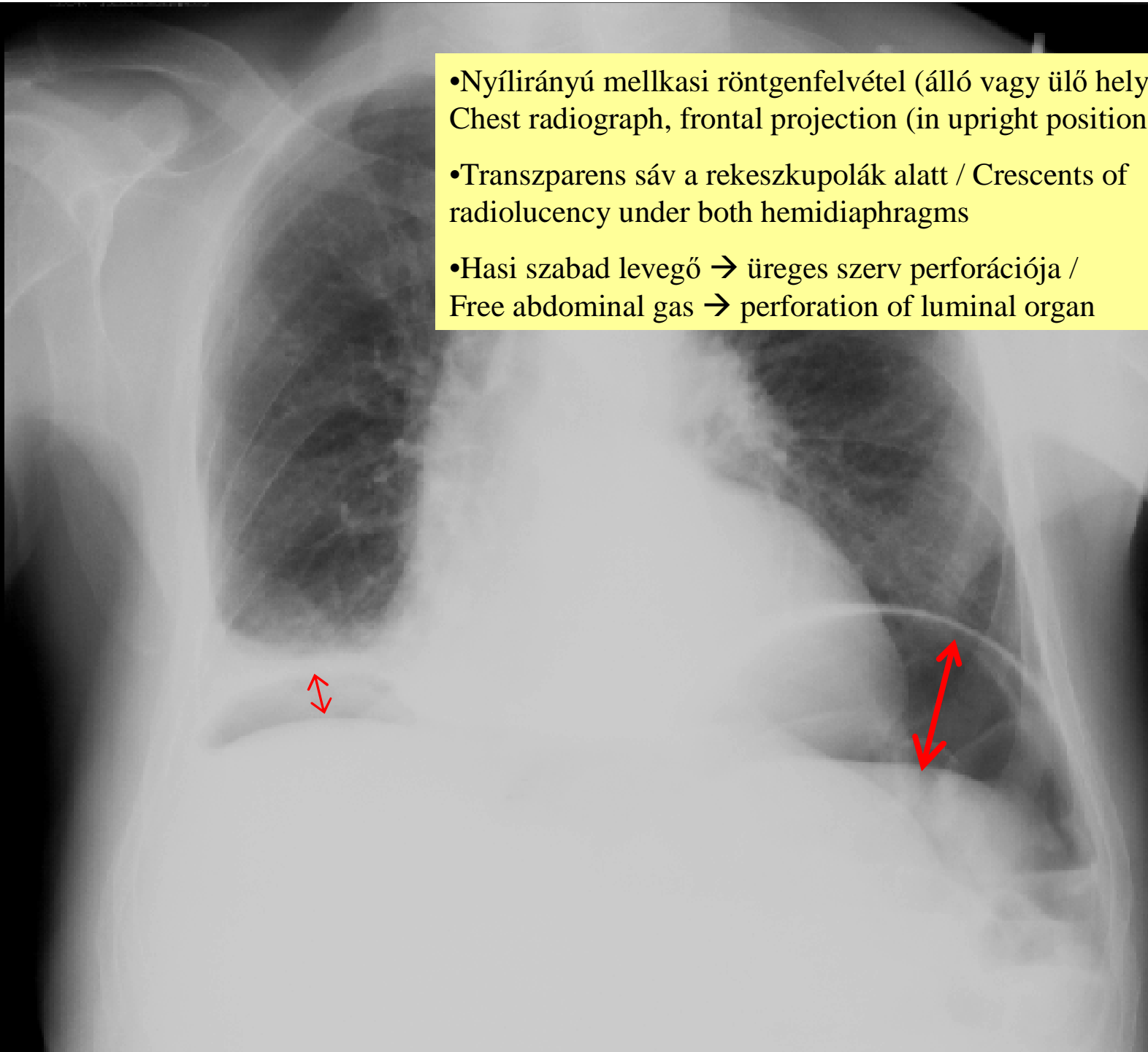
- Appendix ultrahangképe lineáris fejjel (7,5–10 MHz) /
Sonogram of the appendix with linear probe (7.5–10 MHz)
- Tubuláris képlet, megvastagodott, echószegény fal /
Tubular structure with thickened hypoechoic wall
- Appendicitis acuta

17.



17.

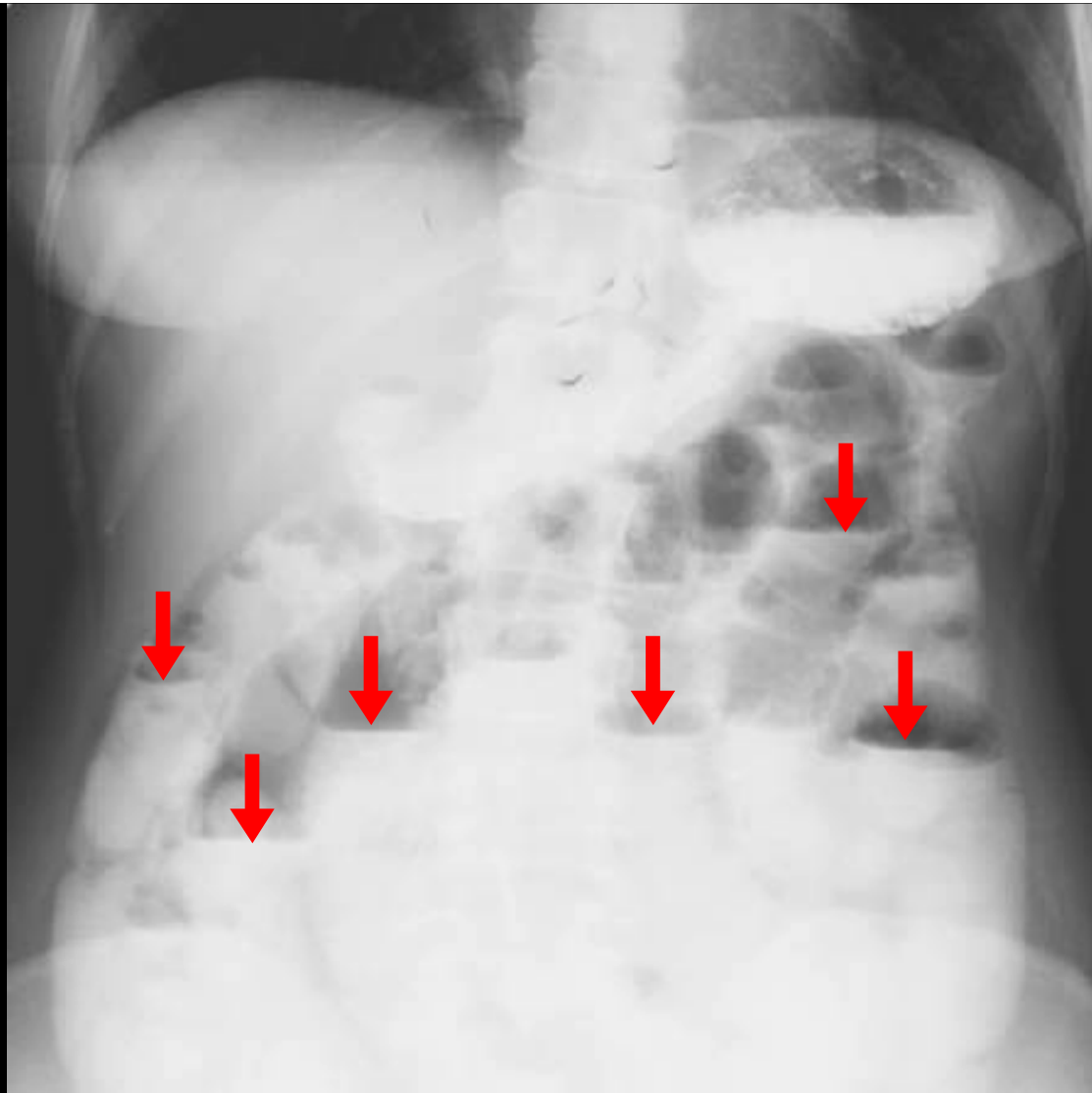
- Nyílrányú mellkasi röntgenfelvétel (álló vagy ülő helyzetben) / Chest radiograph, frontal projection (in upright position)
- Transzparens sáv a rekeszkupolák alatt / Crescents of radiolucency under both hemidiaphragms
- Hasi szabad levegő → üreges szerv perforációja / Free abdominal gas → perforation of luminal organ



18.



18.

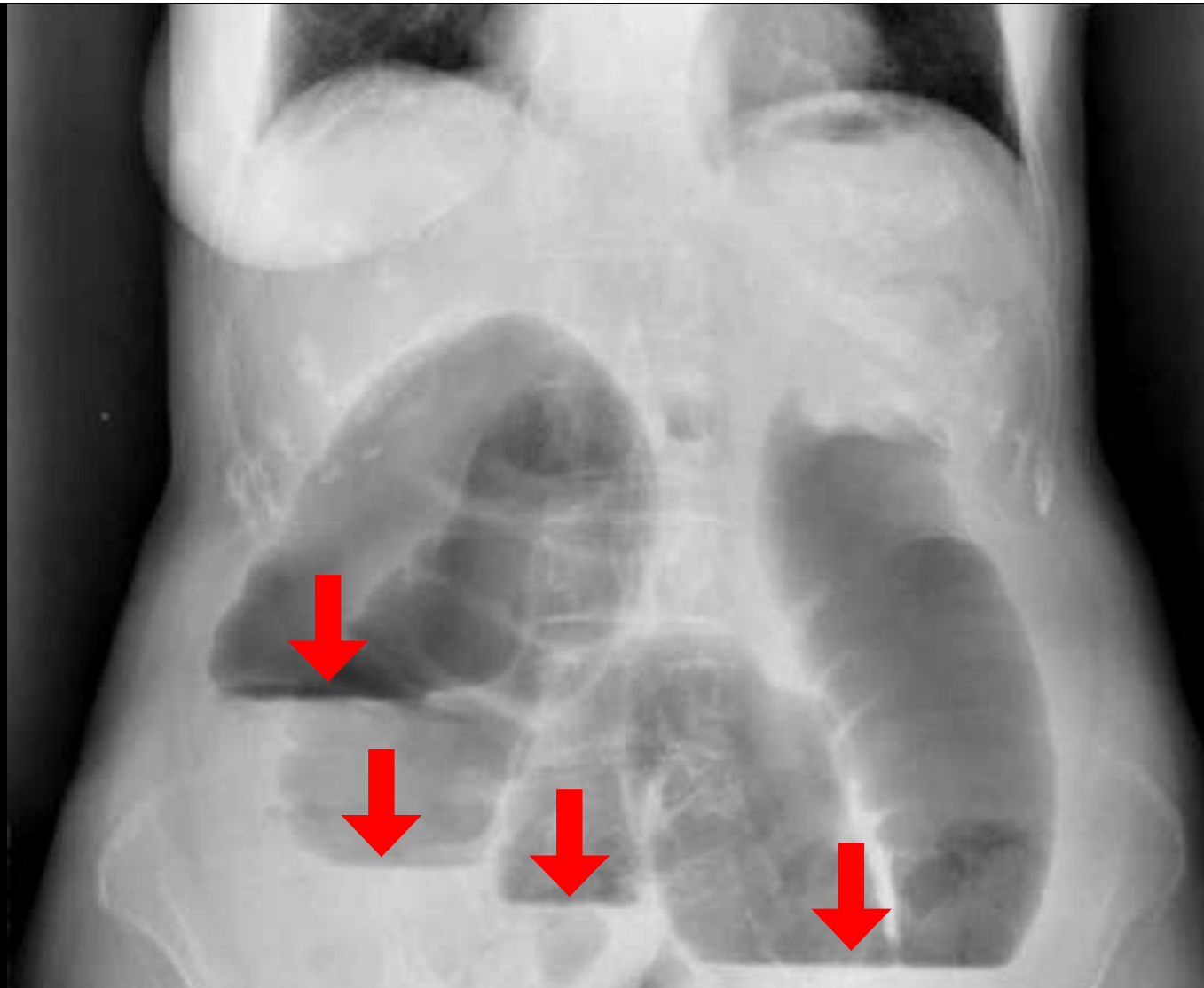


- Passzázskövetés – hasi röntgenfelvételek per os kontrasztanyagadás után / Follow-through examination (X-ray study with oral contrast agent)
- Kontrasztanyag a vékonybélkacsokban, nívók (*nyilak*) / Contrast agent in small-bowel loops with air–fluid levels (*arrows*)
- Vékonybélileus / Small-bowel obstruction („small-bowel ileus”)

19.

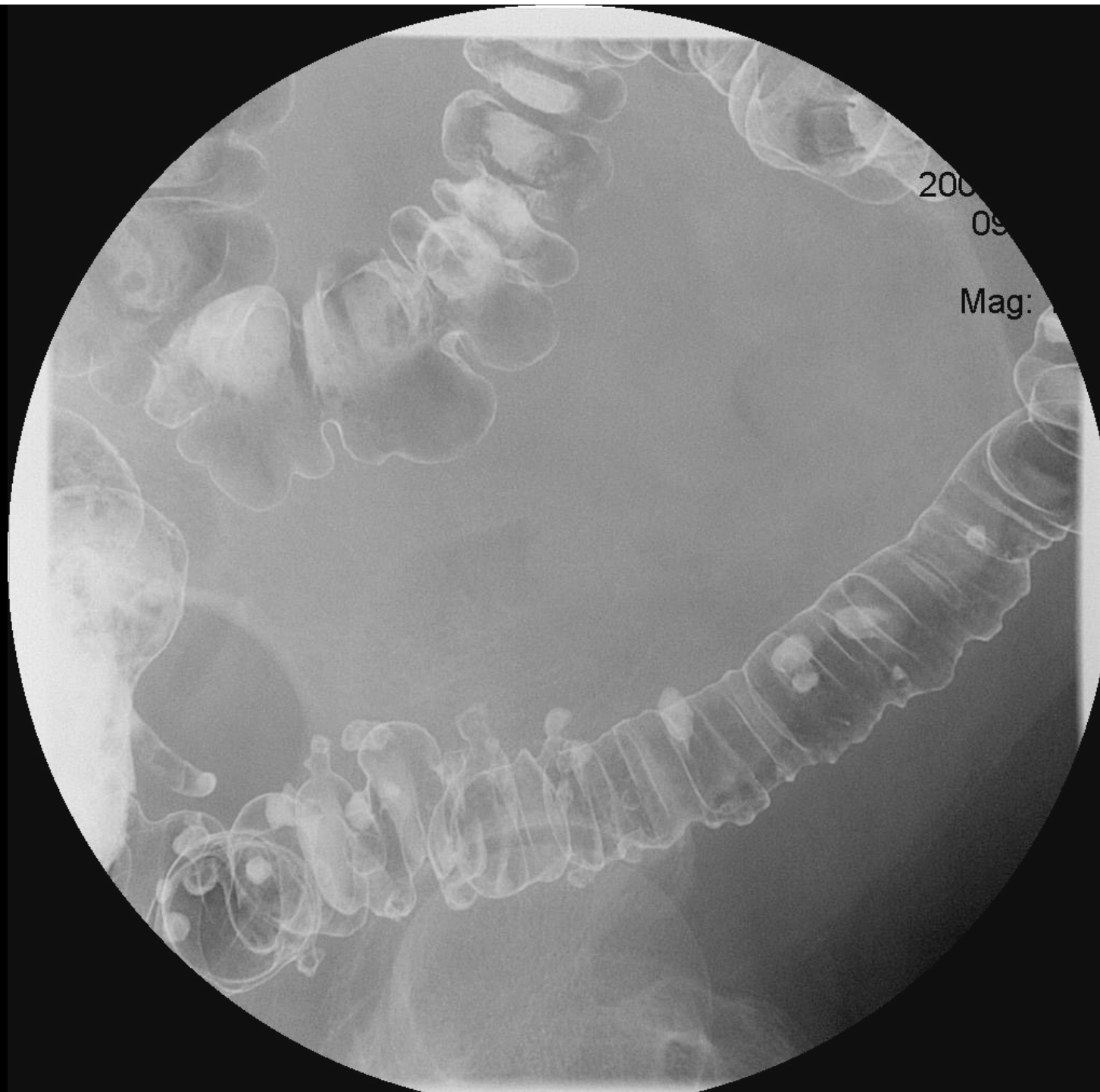


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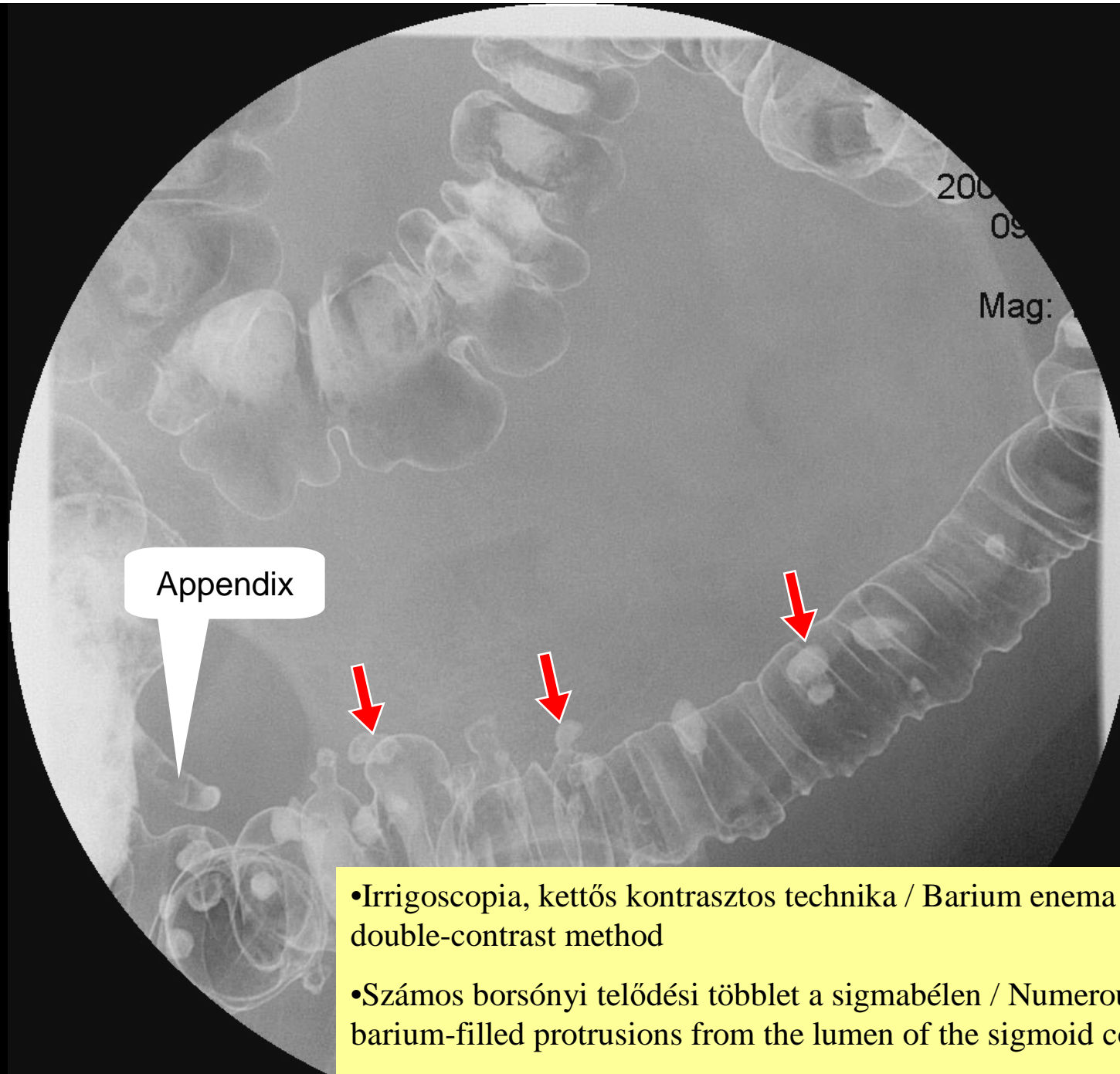


- Natív hasi röntgenfelvétel / Abdominal plain radiograph
- Álló helyzet / Standing posture
- Disztendált colon, széles nívók / Distended colon, large air–fluid levels
- Vastagbélileus / Large-bowel obstruction („large-bowel ileus”)

20.

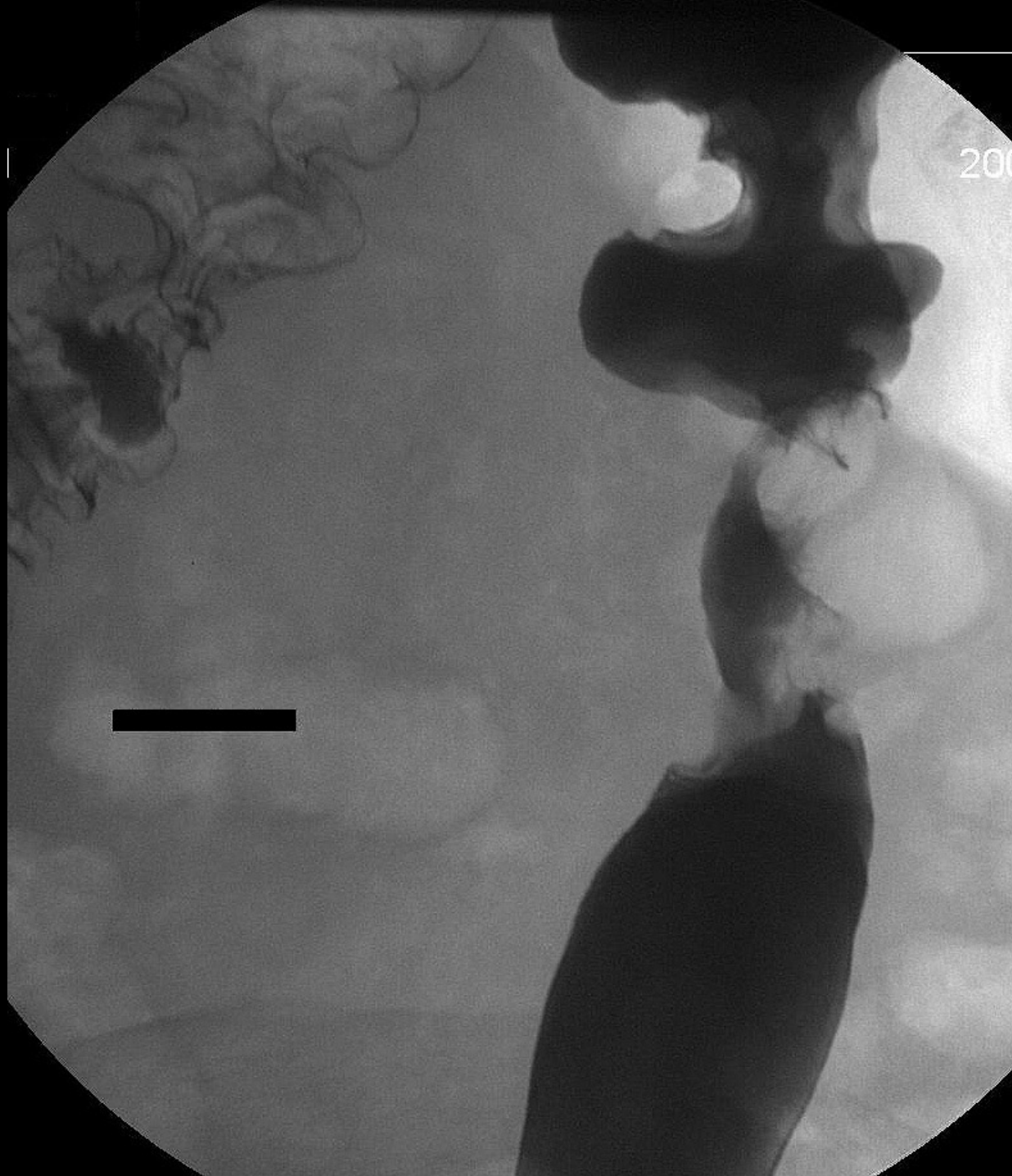


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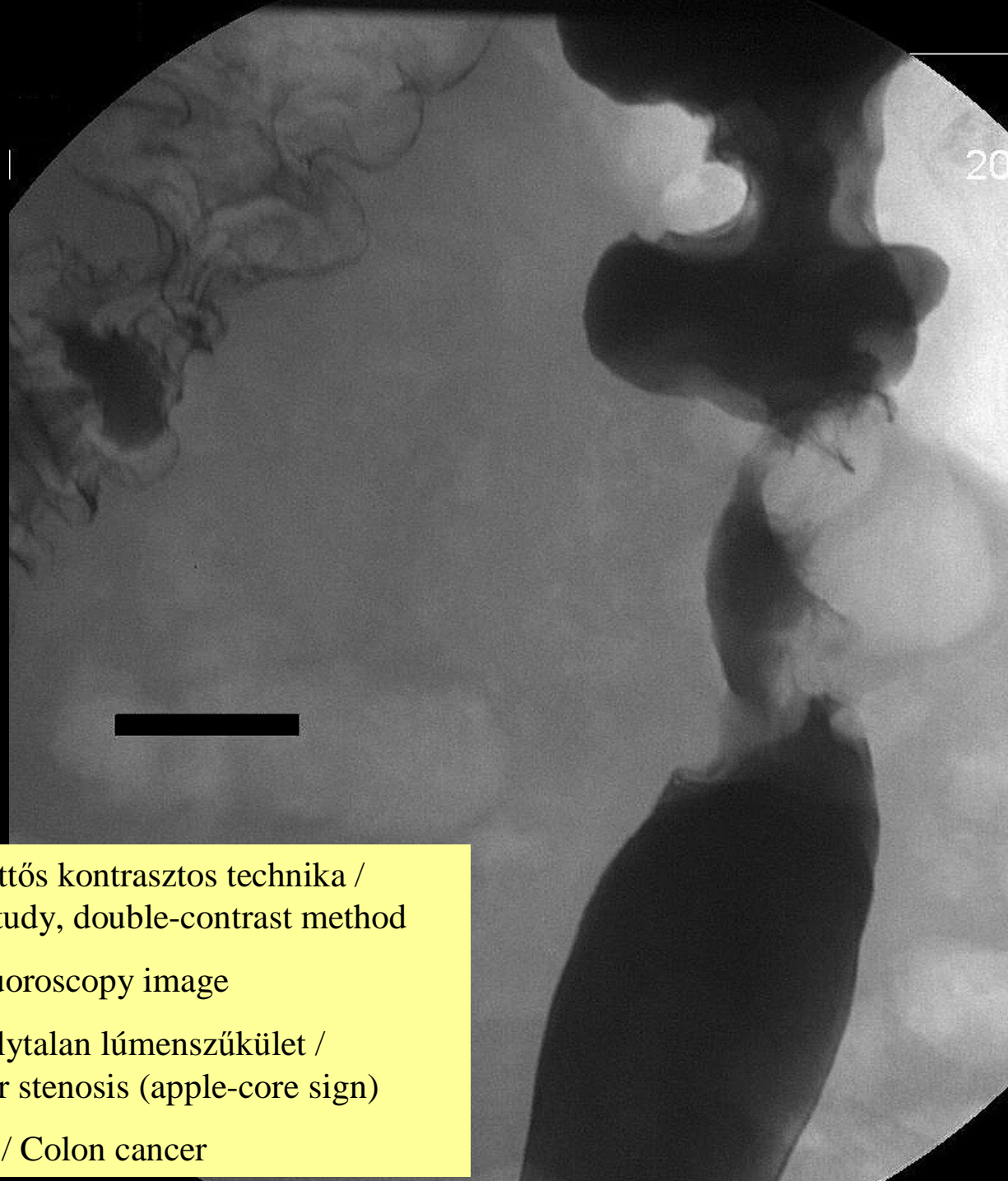


- Irrigoscopia, kettős kontrasztos technika / Barium enema study, double-contrast method
- Számos borsónyi telődési többlet a sigmabélen / Numerous small barium-filled protrusions from the lumen of the sigmoid colon
- Diverticulosis

21.



21.

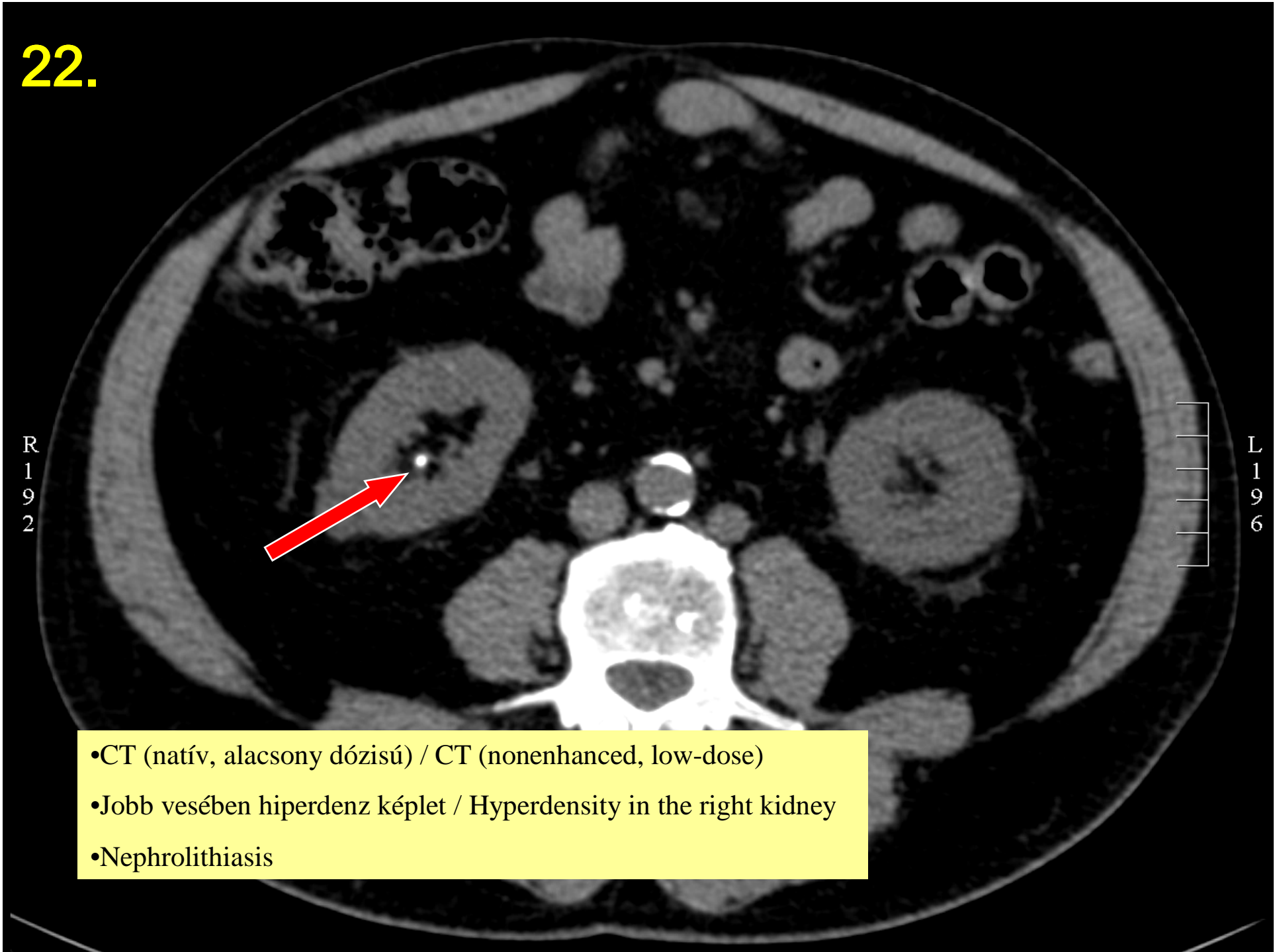


- Irrigoscopia, kettős kontrasztos technika / Barium enema study, double-contrast method
- Átvilágítás / Fluoroscopy image
- Körkörös szabálytalan lúmenszűkület / Annular irregular stenosis (apple-core sign)
- Carcinoma coli / Colon cancer

22.

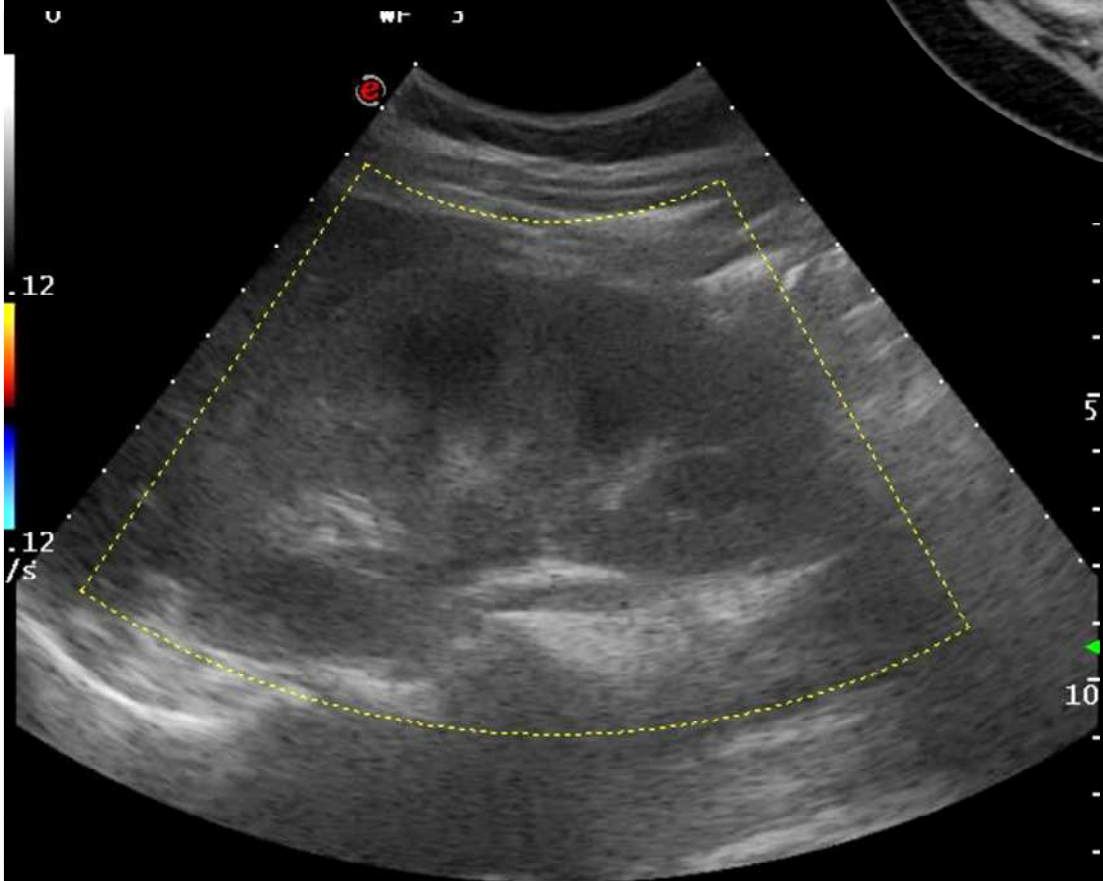


22.



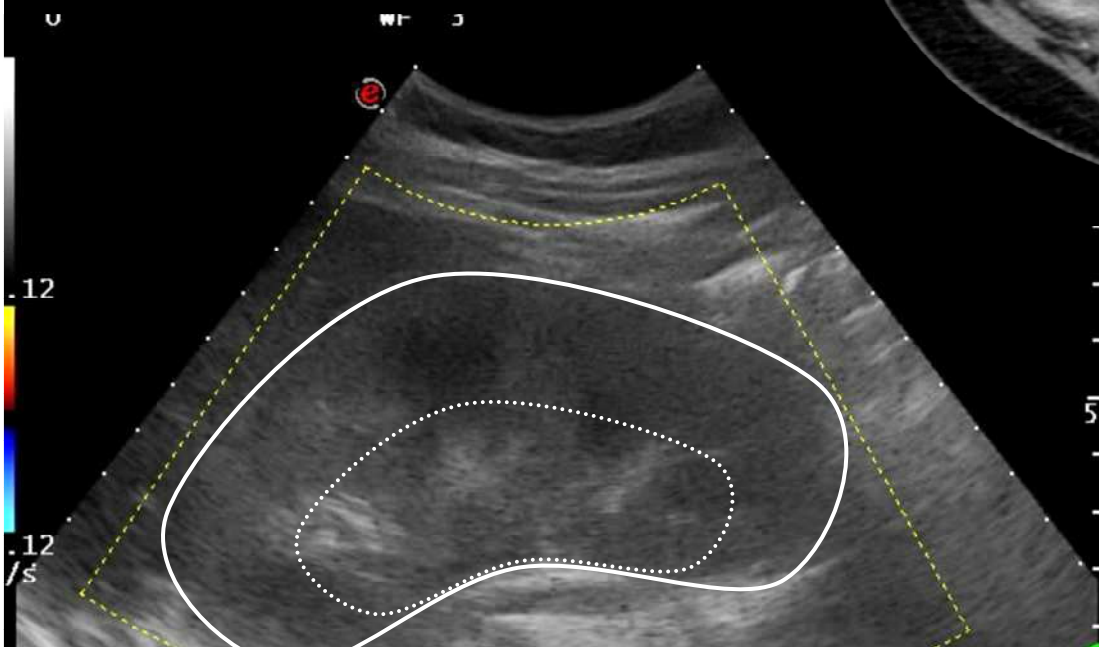
- CT (natív, alacsony dózisé) / CT (nonenhanced, low-dose)
- Jobb vesében hiperdenz képlet / Hyperdensity in the right kidney
- Nephrolithiasis

23.



23.

- CT (posztkontrasztos) / CT (contrast-enhanced)
- Jobb vese nagyobb, szabálytalan szerkezetű / Enlarged right kidney with irregular structure
- Pyelonephritis acuta



- Veseultrahang konvex fejjel (3,5–5 MHz), B-mód & színes Doppler / Kidney ultrasound with convex probe (3.5–5 MHz), B mode & colour Doppler
- Elmosódott határú centrális echócsoport / Ill-marginated central echo group
- Pyelonephritis acuta

24.



24.



- CT (natív) / CT (unenhanced)
- Per os kontrasztanyag nélkül / Without oral contrast medium

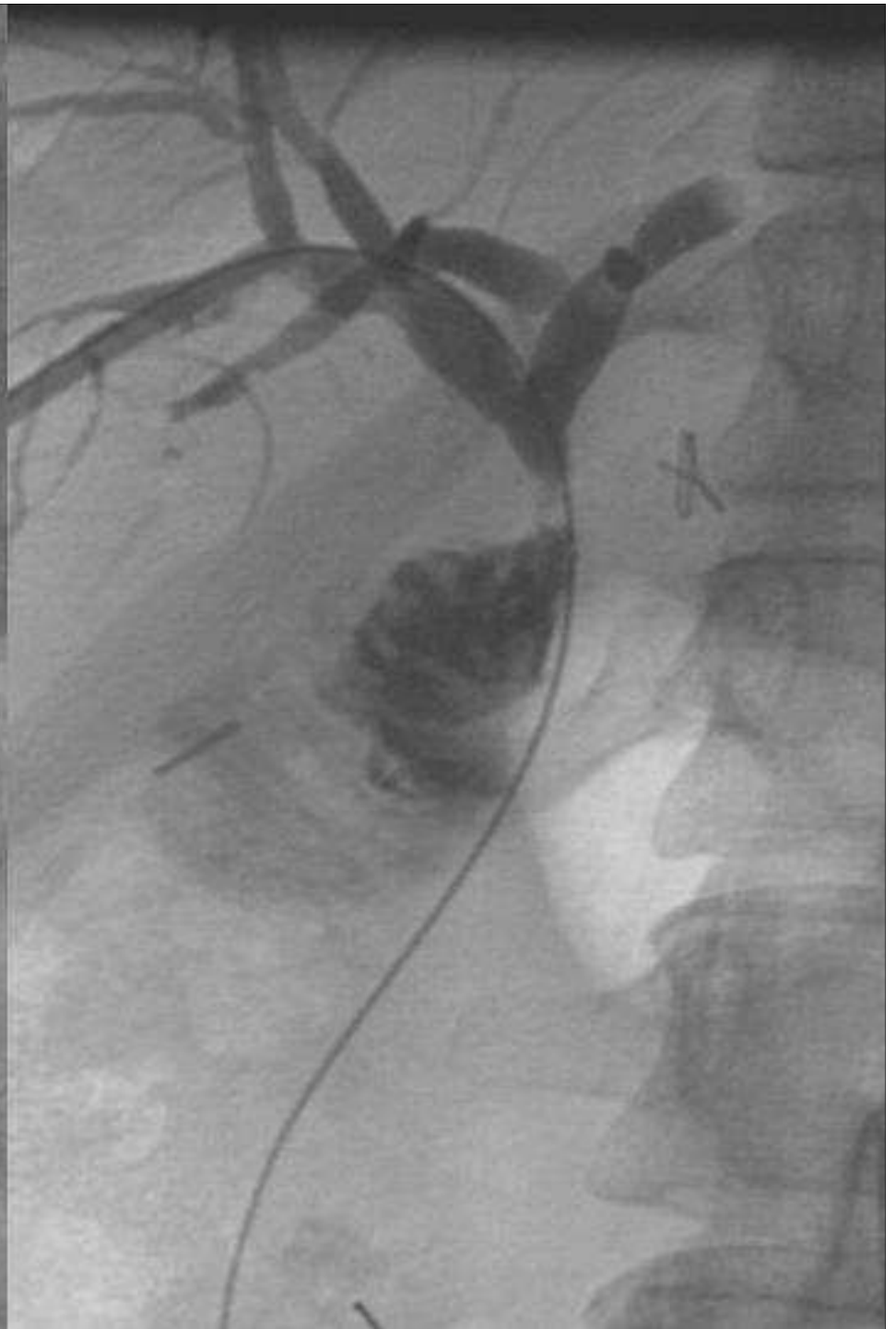
•CT-angiográfia (1. lépés: natív képsorozat, majd kontrasztos artériás fázisú) /
CT-angiography (1st series: nonenhanced, 2nd: contrast-enhanced in arterial phase)

•Hasi aortaaneurysma környező haematomával /
Abdominal aortic aneurysm with adjacent haematoma

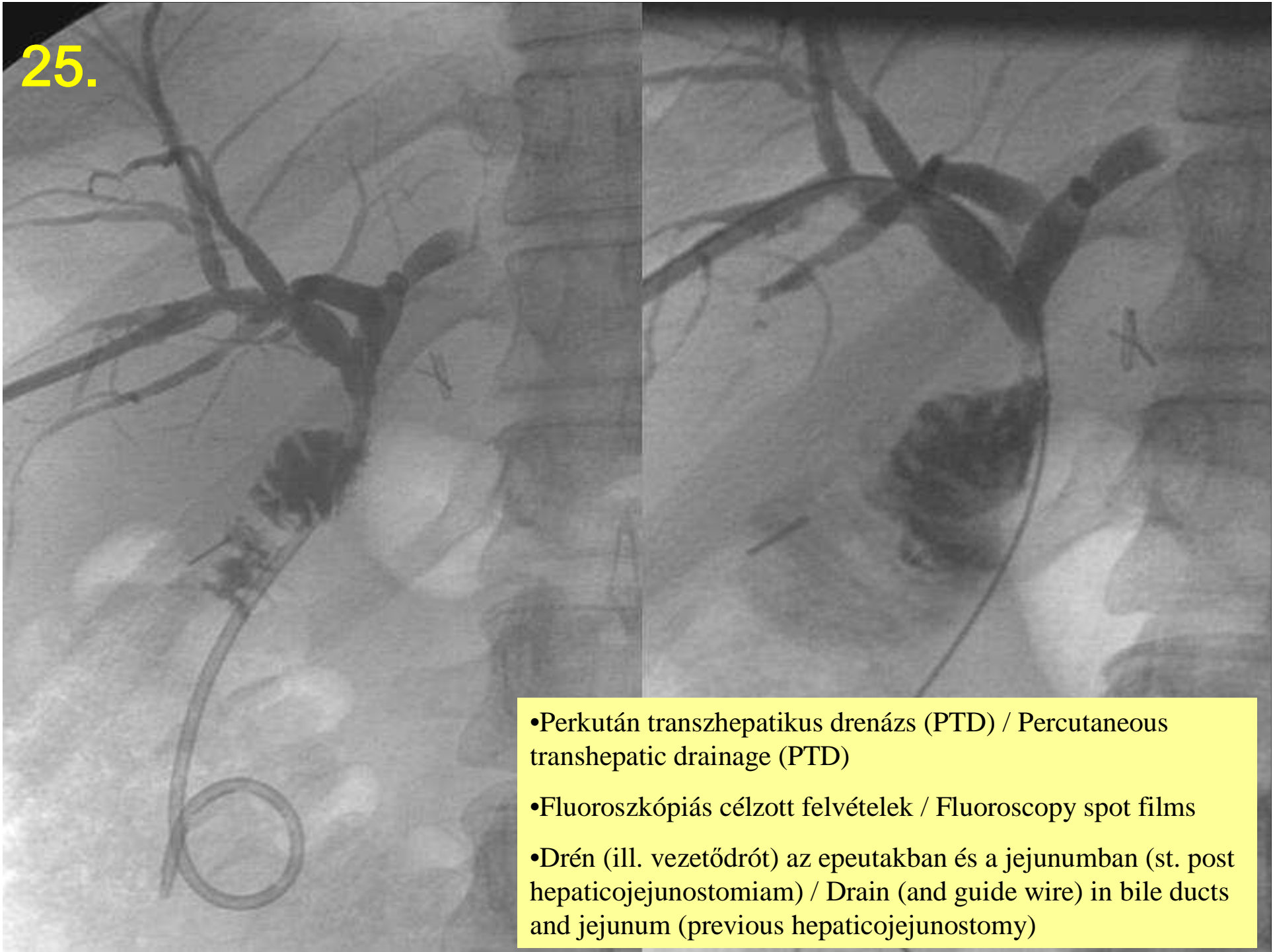
•Szivárgás vagy ruptura / Leakage or rupture



25.

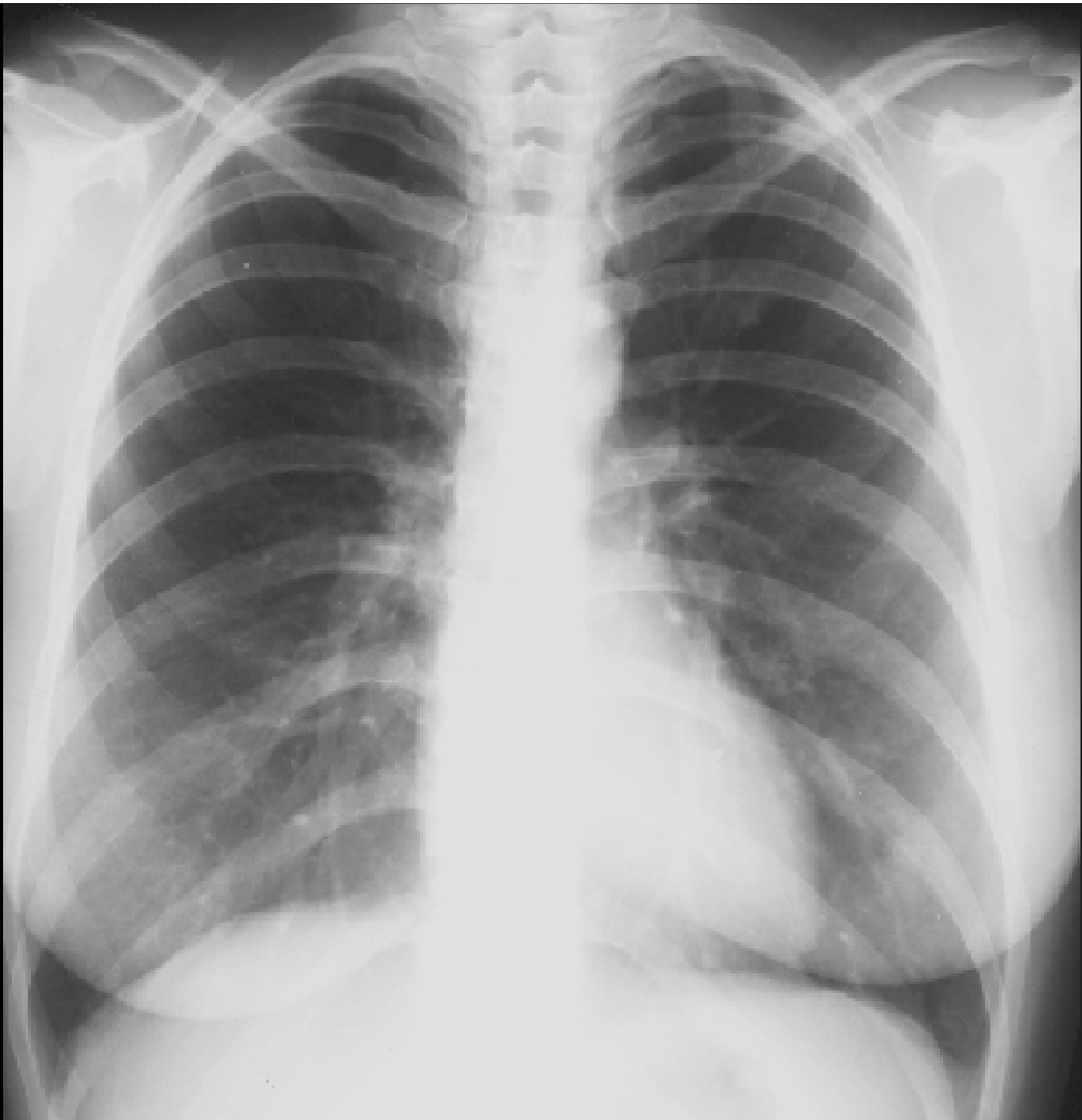


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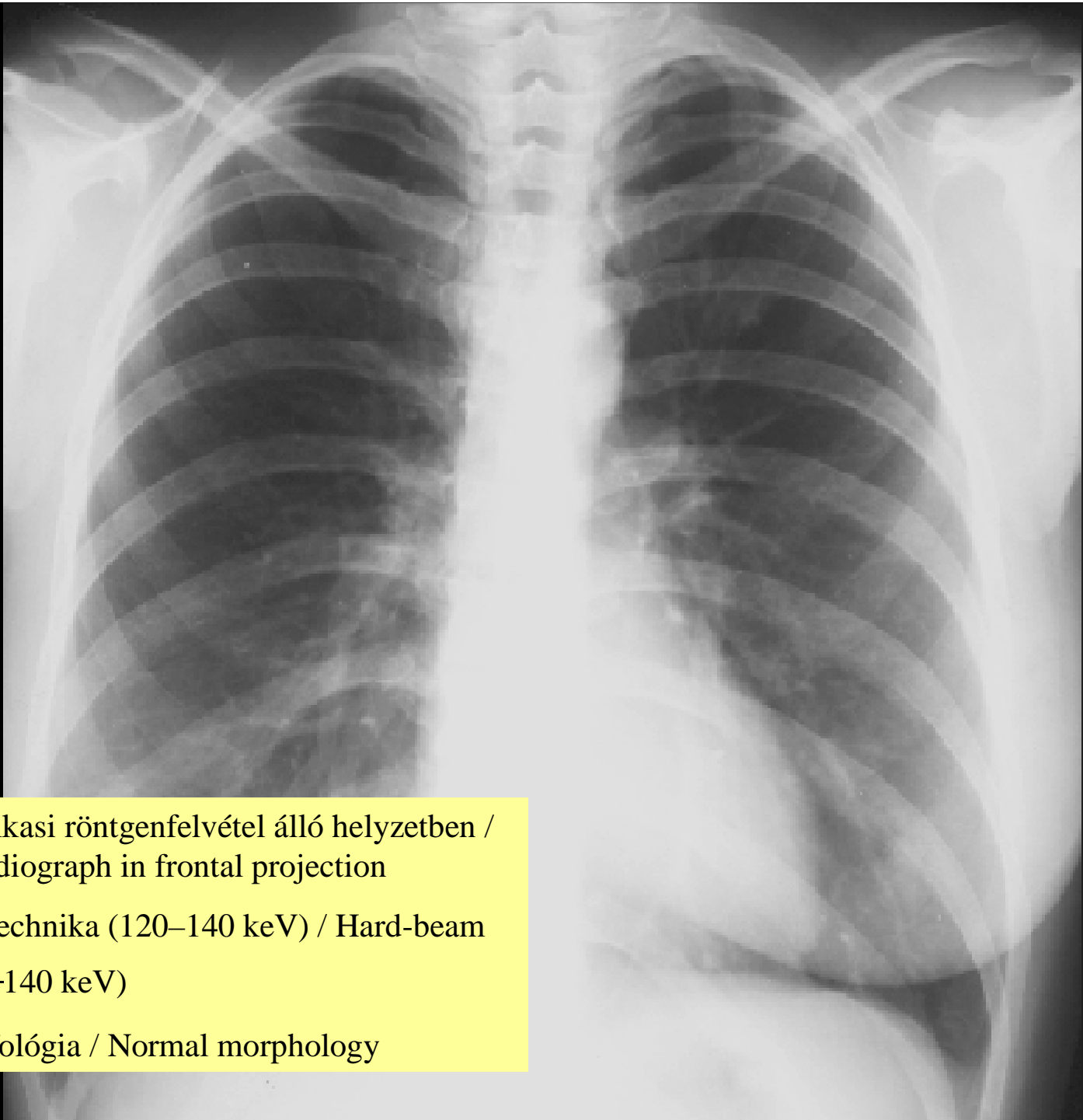


- Perkután transzhepatikus drenázs (PTD) / Percutaneous transhepatic drainage (PTD)
- Fluoroszkópiás célzott felvételek / Fluoroscopy spot films
- Drén (ill. vezetődrót) az epeutakban és a jejunumban (st. post hepaticojejunostomiam) / Drain (and guide wire) in bile ducts and jejunum (previous hepaticojejunostomy)

26.



26.

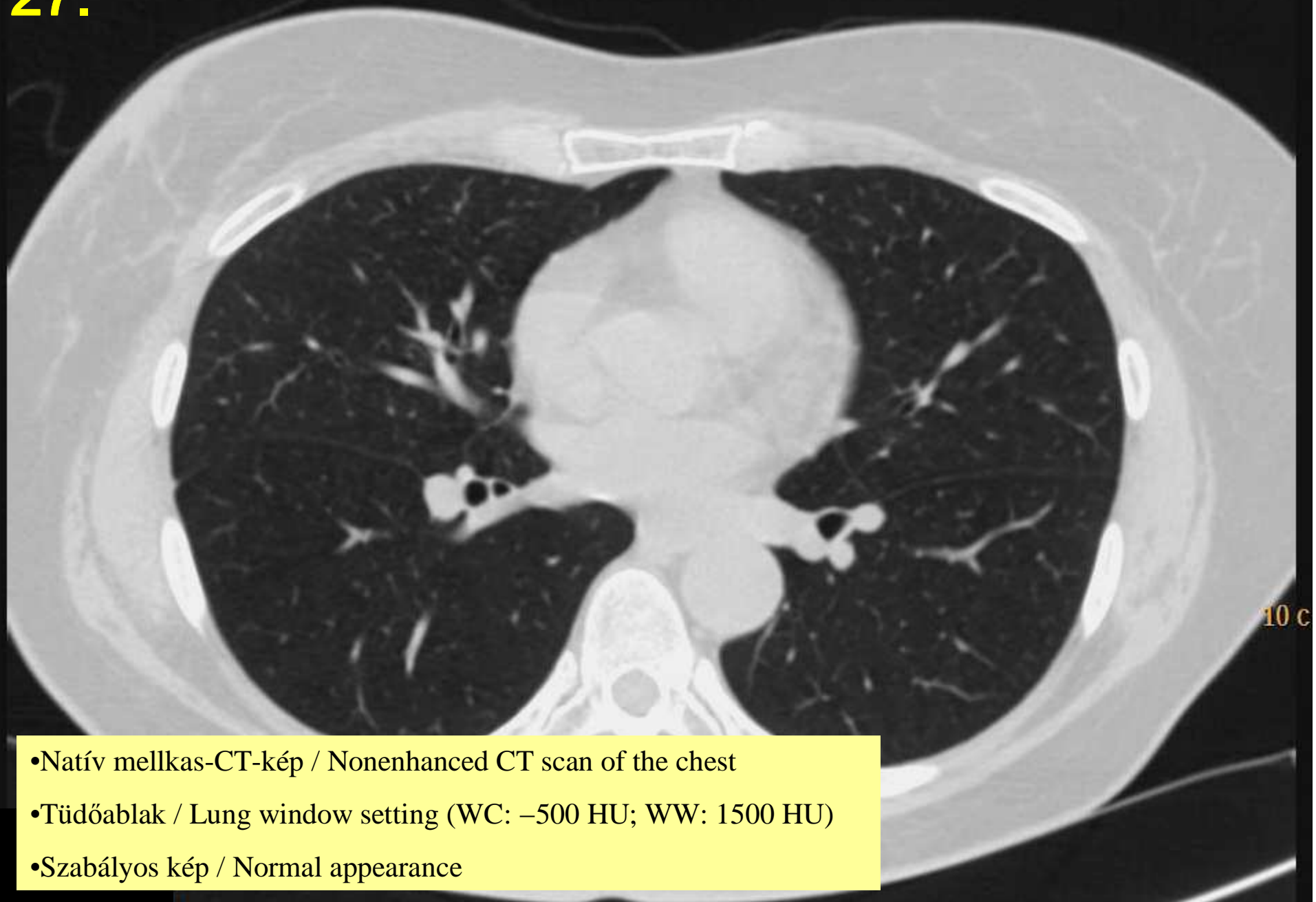


- Nyílrányú mellkasi röntgenfelvétel álló helyzetben / Upright chest radiograph in frontal projection
- Keménysugár-technika (120–140 keV) / Hard-beam technique (120–140 keV)
- Szabályos morfológia / Normal morphology

27.

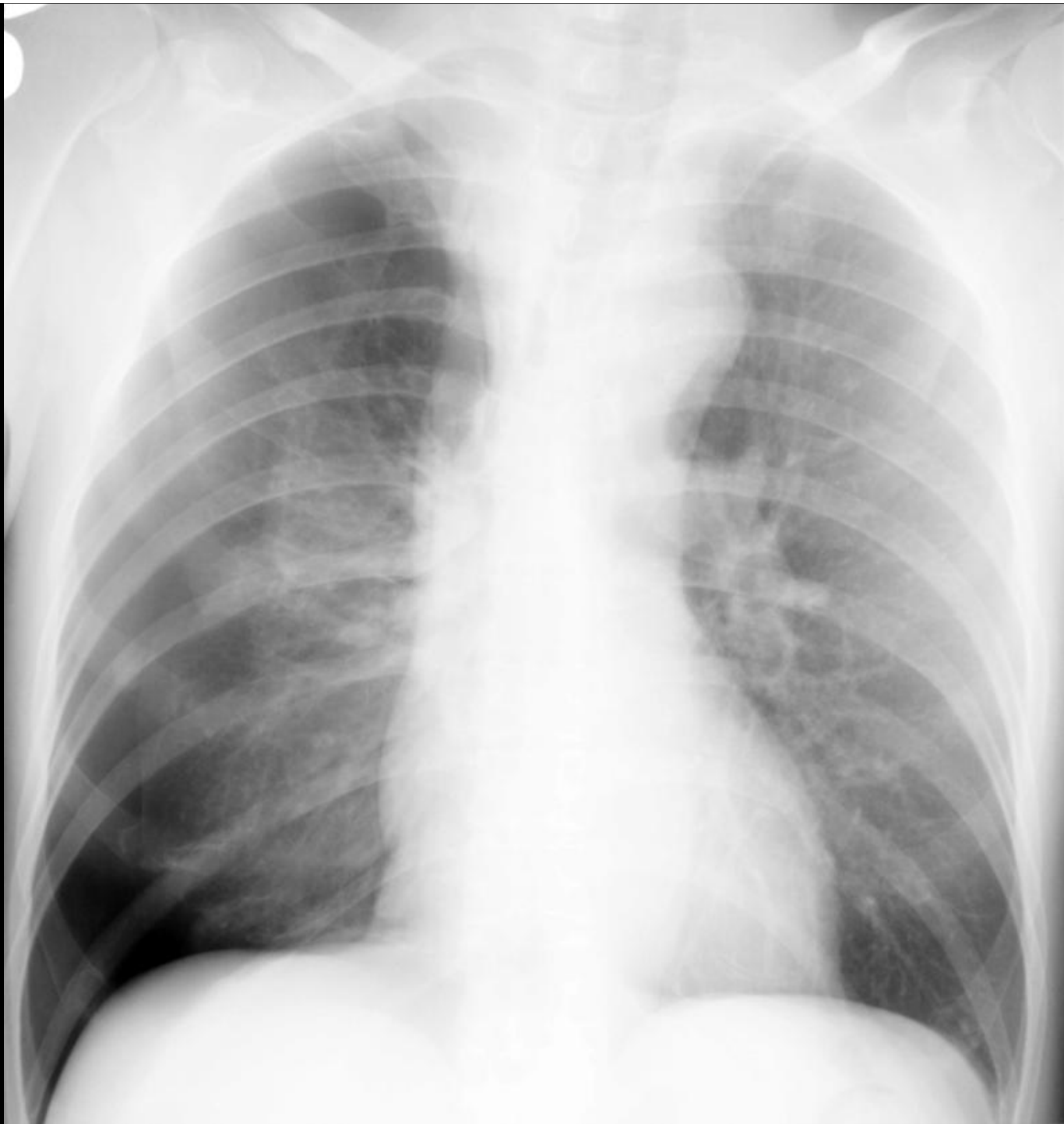


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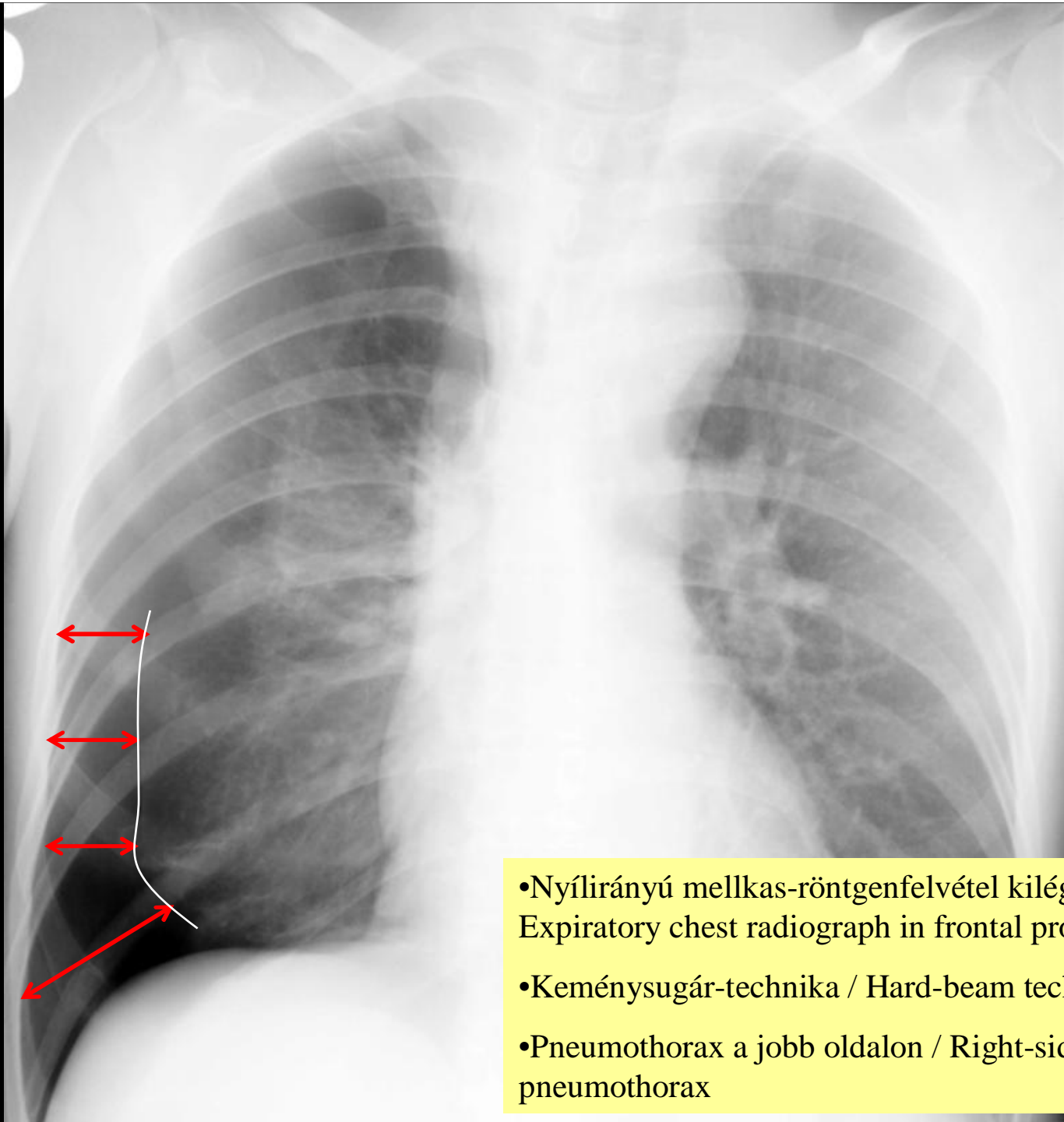


- Natív mellkas-CT-kép / Nonenhanced CT scan of the chest
- Tüdőablak / Lung window setting (WC: -500 HU; WW: 1500 HU)
- Szabályos kép / Normal appearance

28.

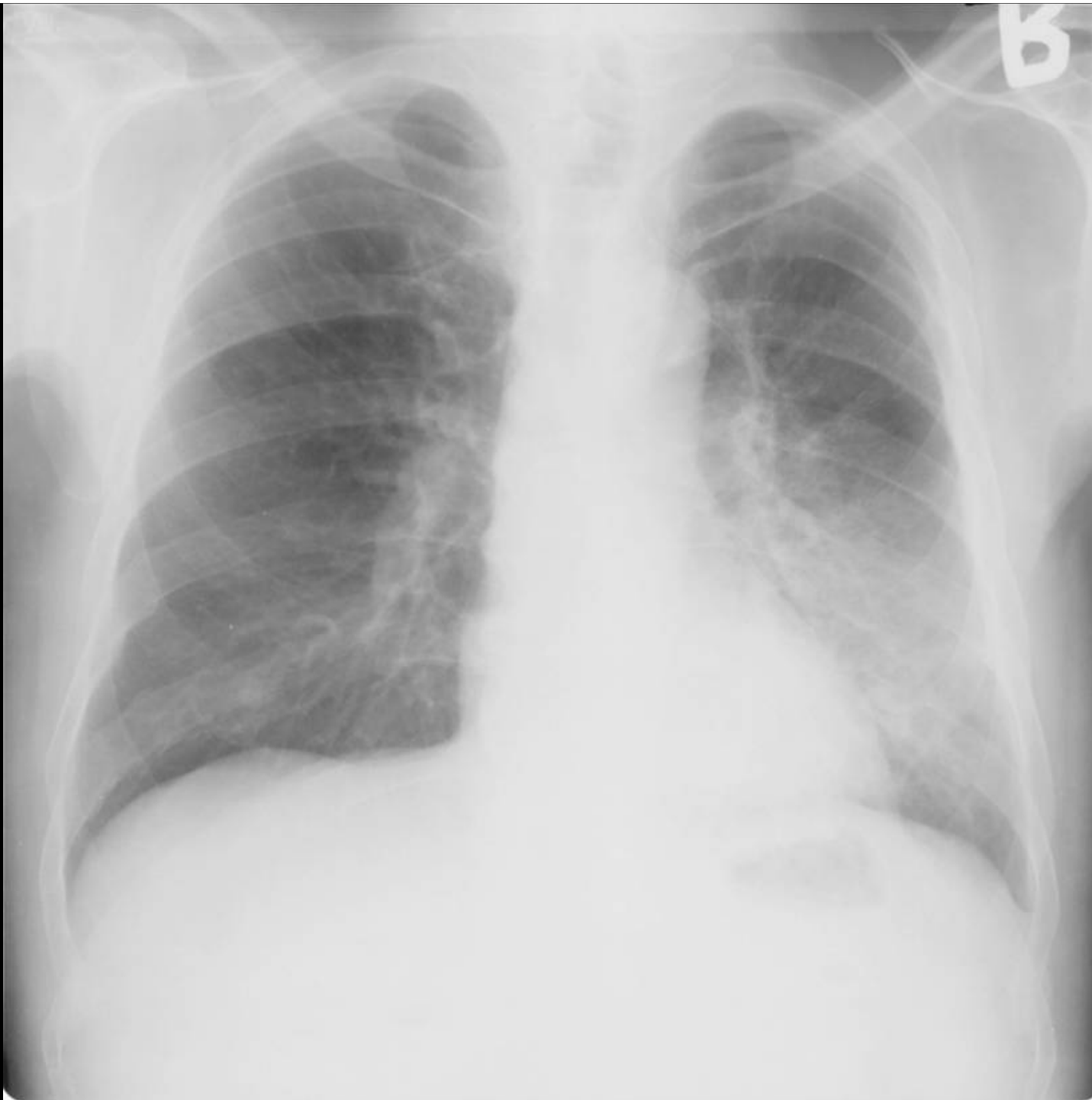


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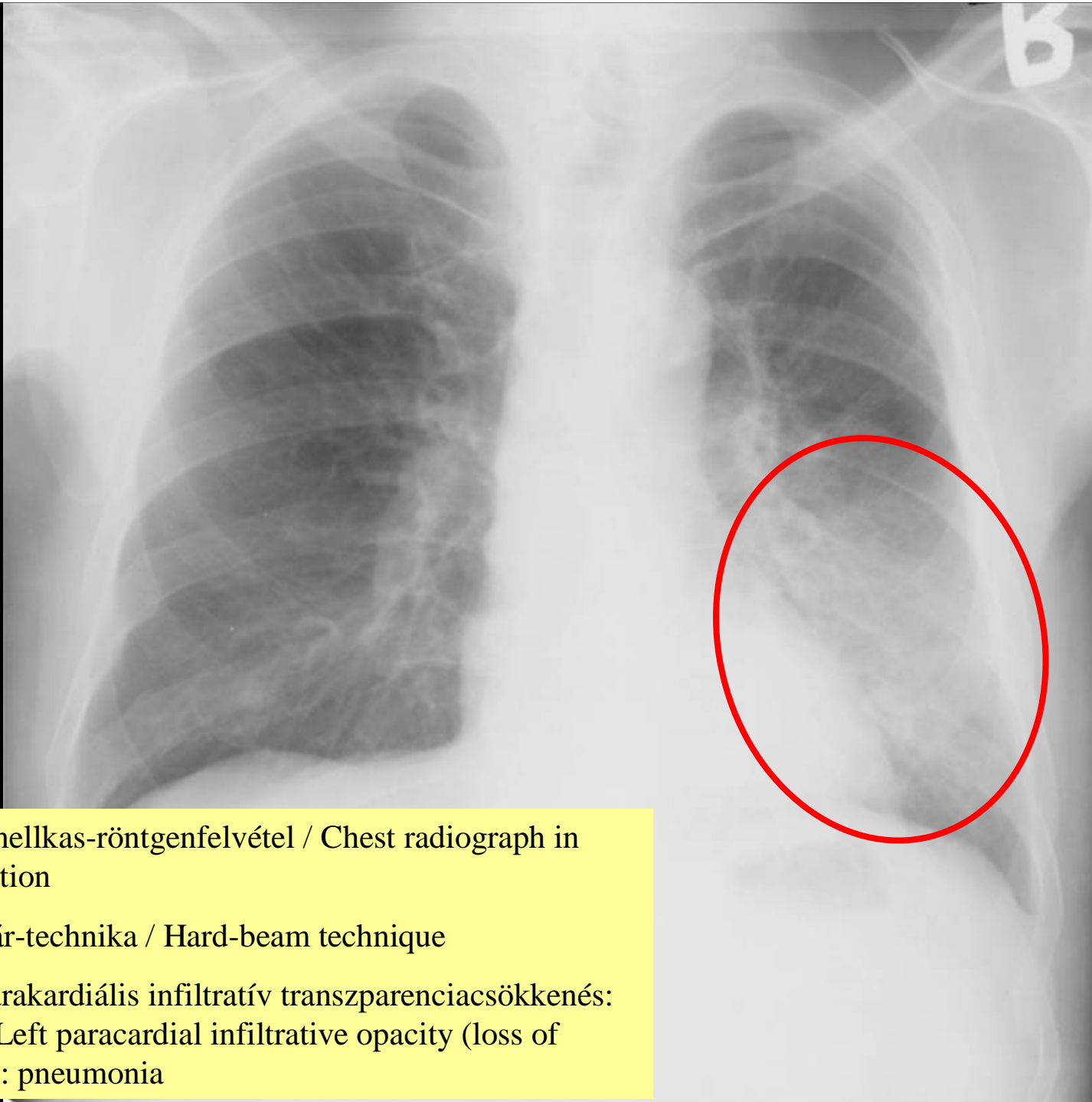


- Nyílrányú mellkas-röntgenfelvétel kilégzésben / Expiratory chest radiograph in frontal projection
- Keménysugár-technika / Hard-beam technique
- Pneumothorax a jobb oldalon / Right-sided pneumothorax

29.

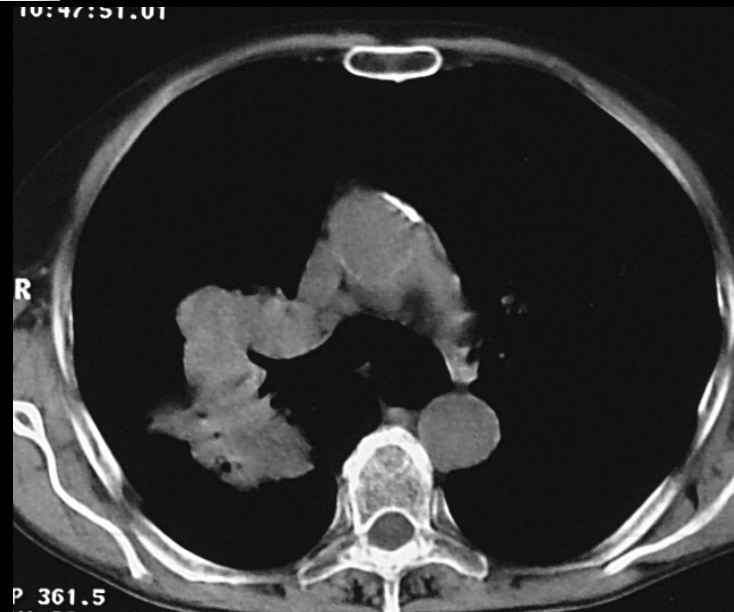
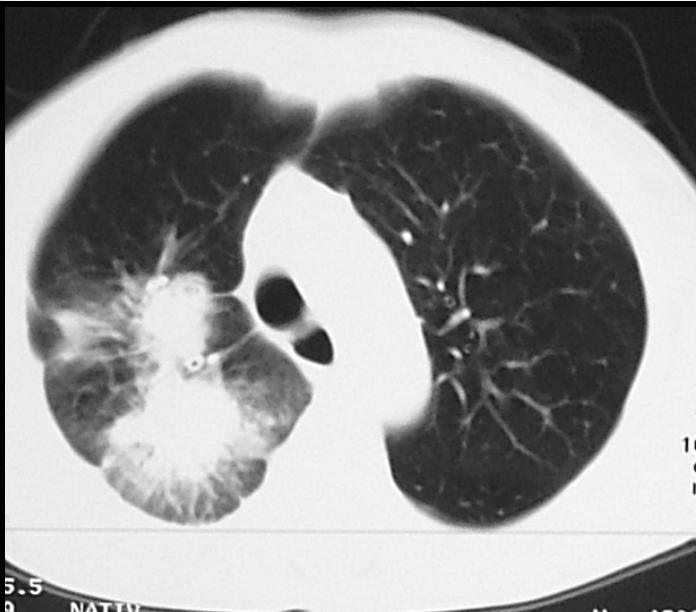
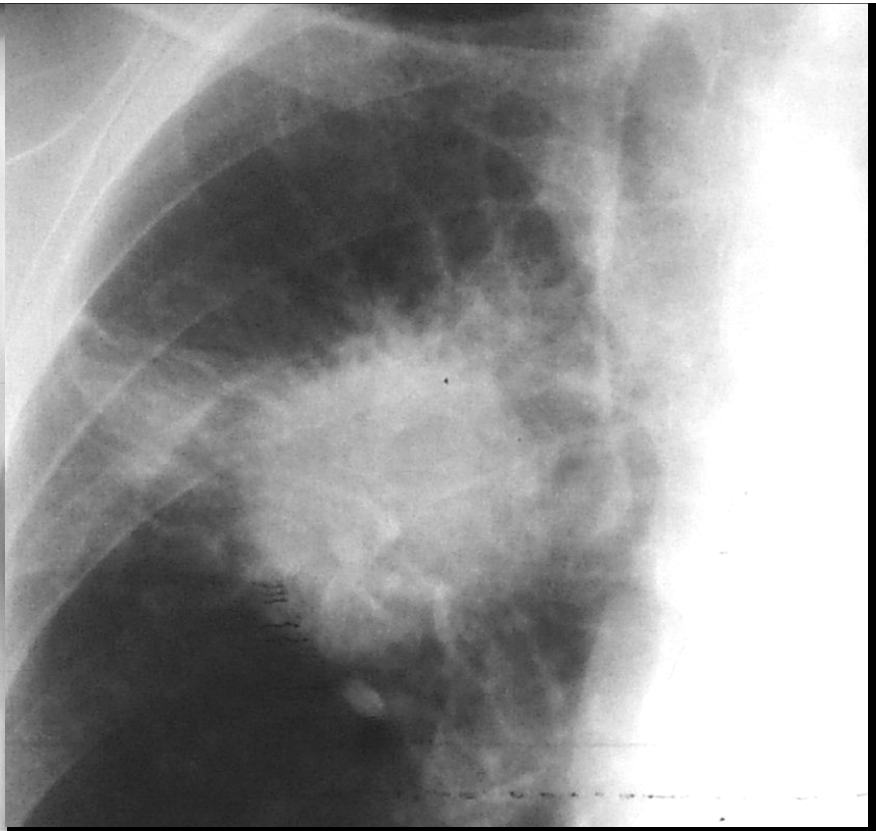
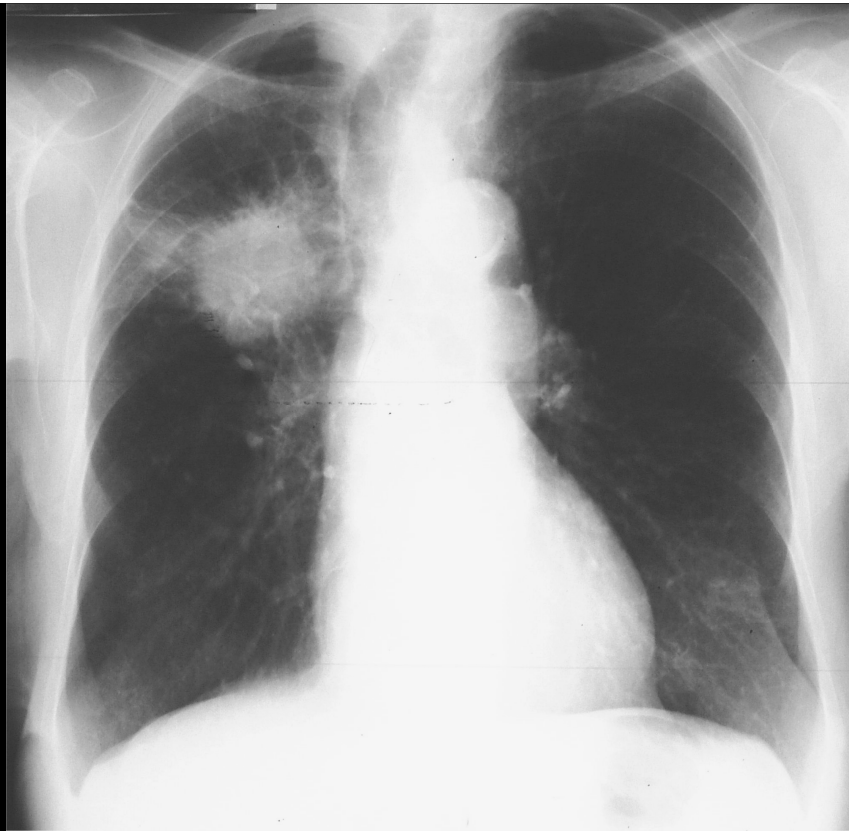


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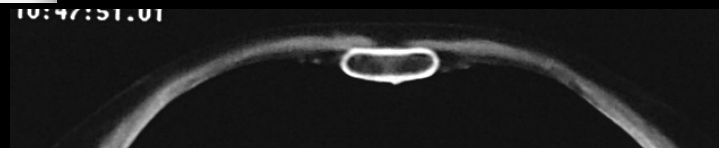
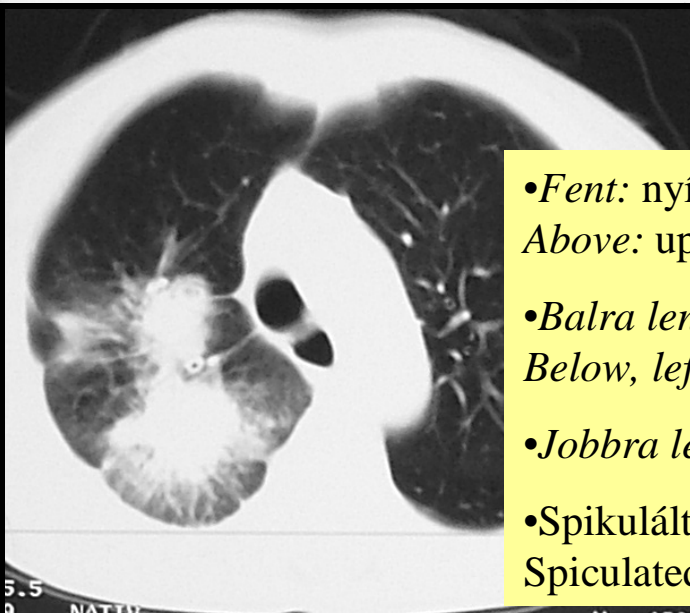
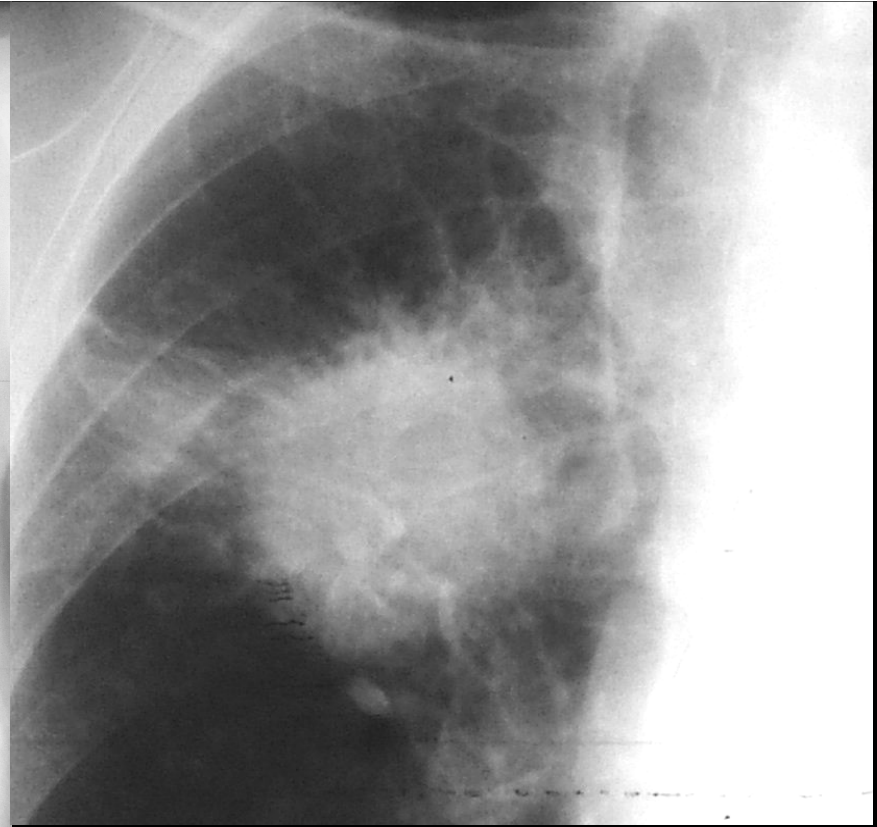
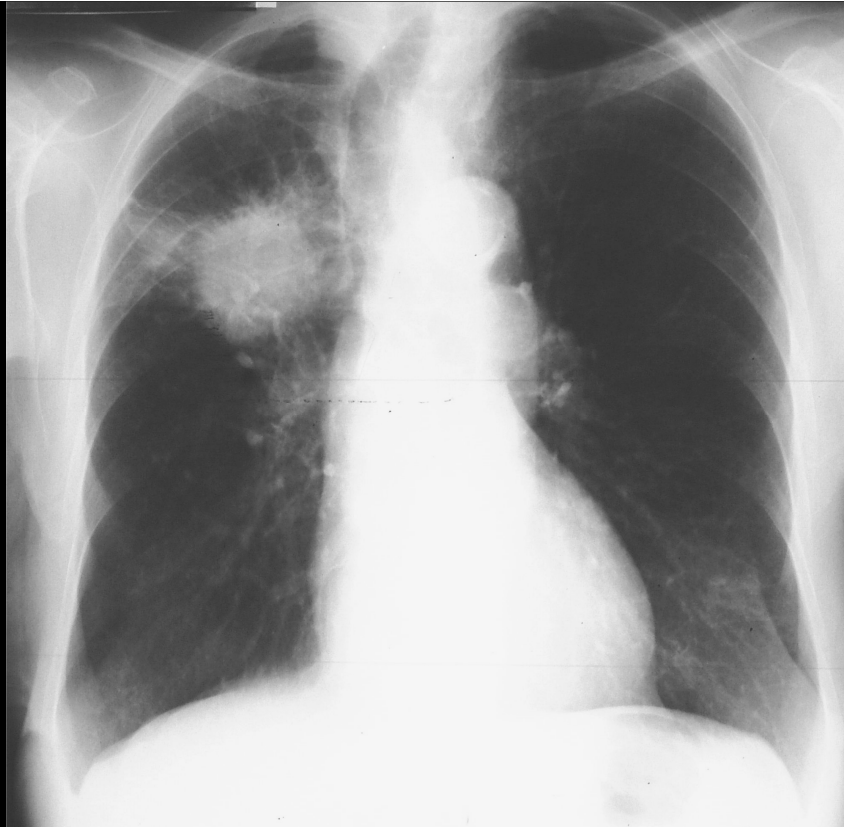


- Nyírlirányú mellkas-röntgenfelvétel / Chest radiograph in frontal projection
- Keménysugár-technika / Hard-beam technique
- Bal oldali parakardiális infiltratív transzparenciacsökkenés: pneumonia / Left paracardial infiltrative opacity (loss of transparency): pneumonia

30.



30.



•*Fent:* nyílrányú mellkas-röntgenfelvétel /
Above: upright chest X-ray in frontal projection

•*Balra lent:* natív mellkas-CT, tüdőablak /
Below, left: nonenhanced CT of the chest, lung window

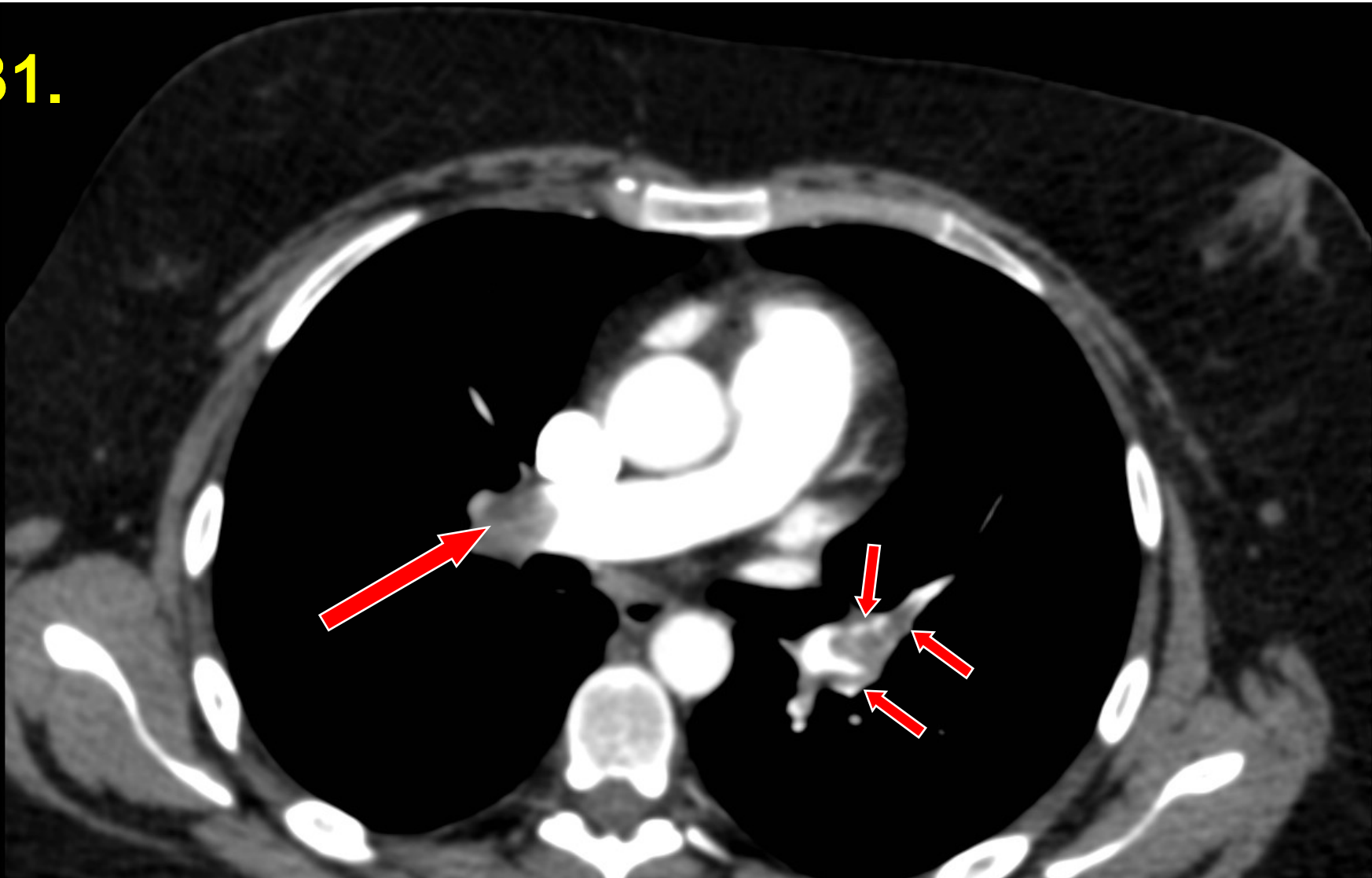
•*Jobbra lent:* lágyrészablak / *Below, right:* soft tissue window

•Spikulált lágyrészárnyék a jobb felső tüdőmezőben: carcinoma /
Spiculated soft tissue mass in right upper lung area: cancer

31.



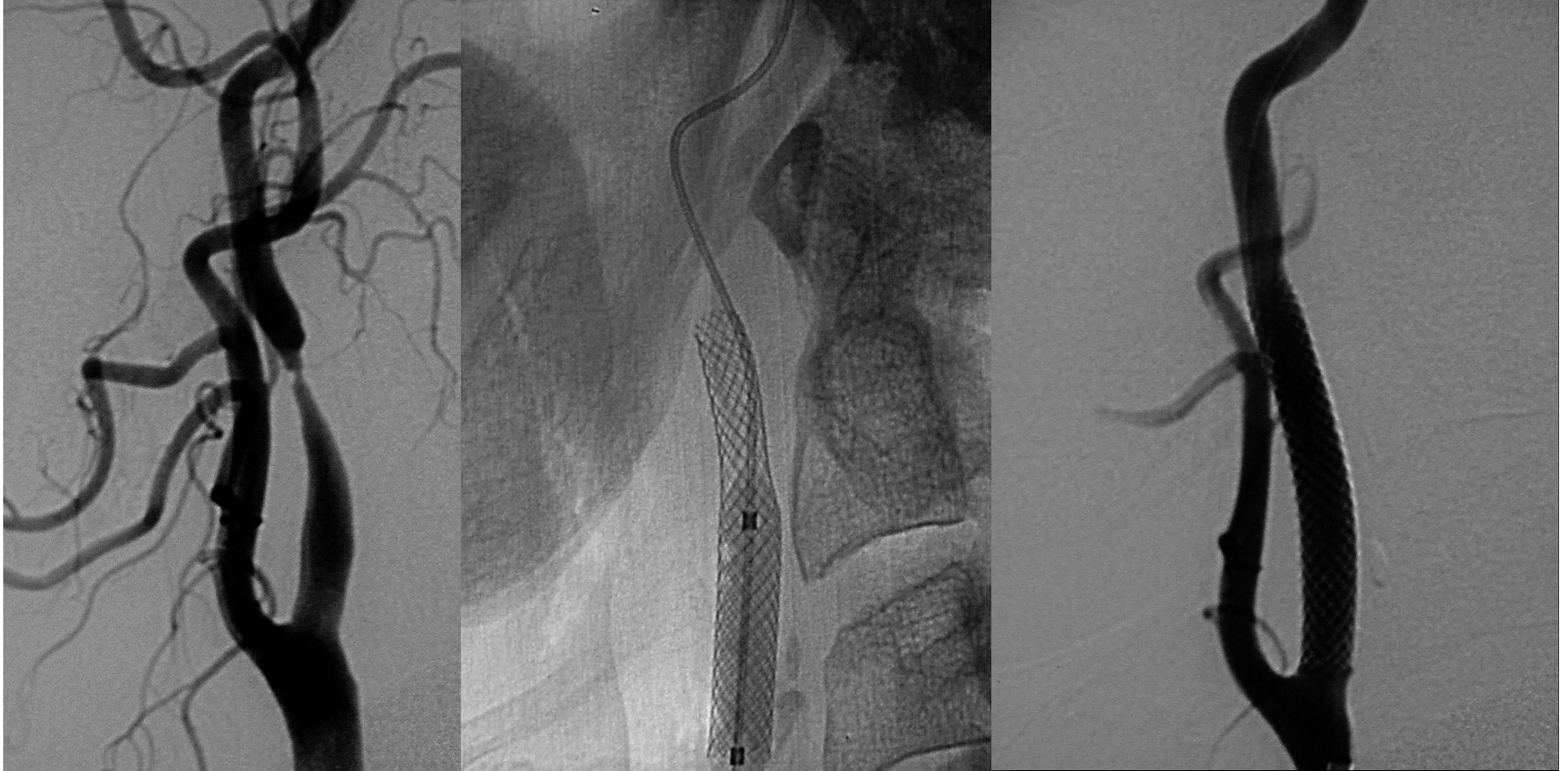
31.



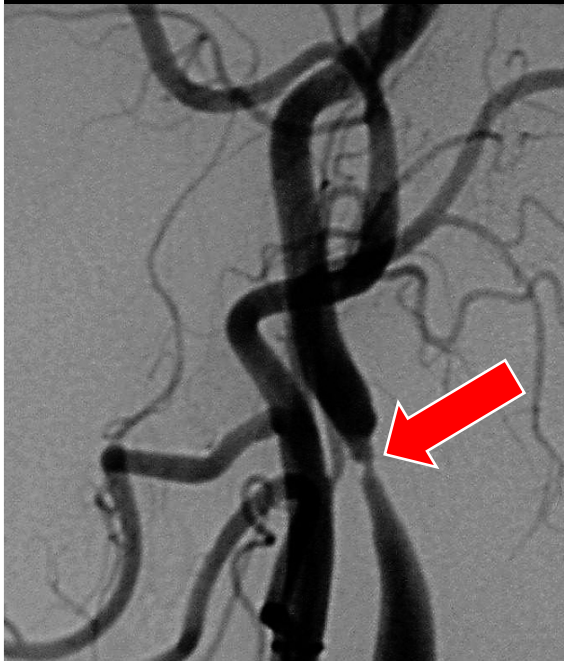
•Pulmonális CT-angiográfia (először natív, majd pulmonális artériás fázisú posztkontrasztos) / Pulmonary CT-angiography (1st step: nonenhanced series, 2nd step: contrast-enhanced series in pulmonary arterial phase)

•Masszív telődéskiesés a jobb a. pulmonalis-főtörzsben és bal a. pulmonalis ágaiban / Large filling defects in the right pulmonary artery and in branches of the left one

32.



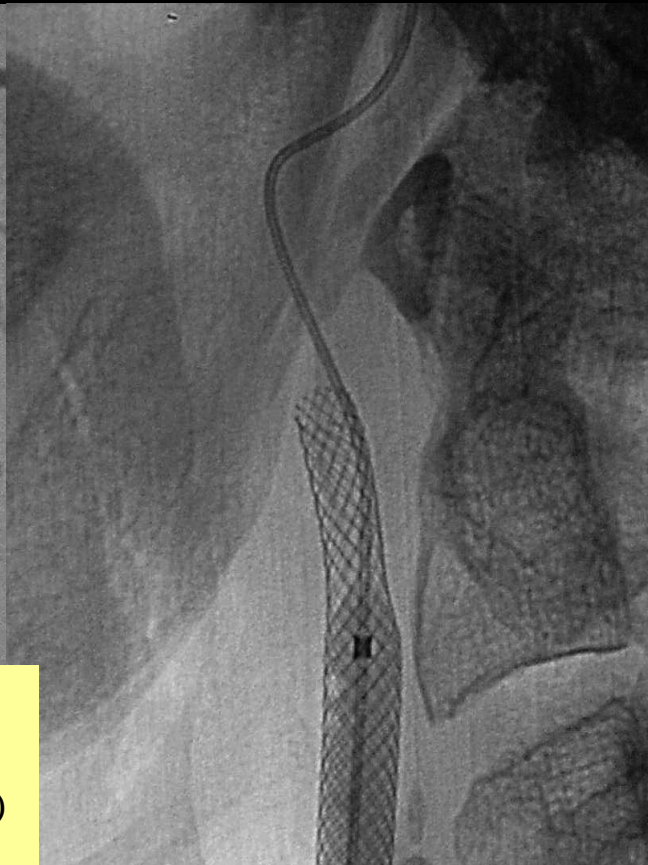
32.



•Digitális szubtrakciós angiográfia (DSA) / Digital subtraction angiography (DSA)

•Carotisrendszer / Carotid system

•Szigifikáns sztenózis az a. carotis internán / Significant stenosis on internal carotid artery



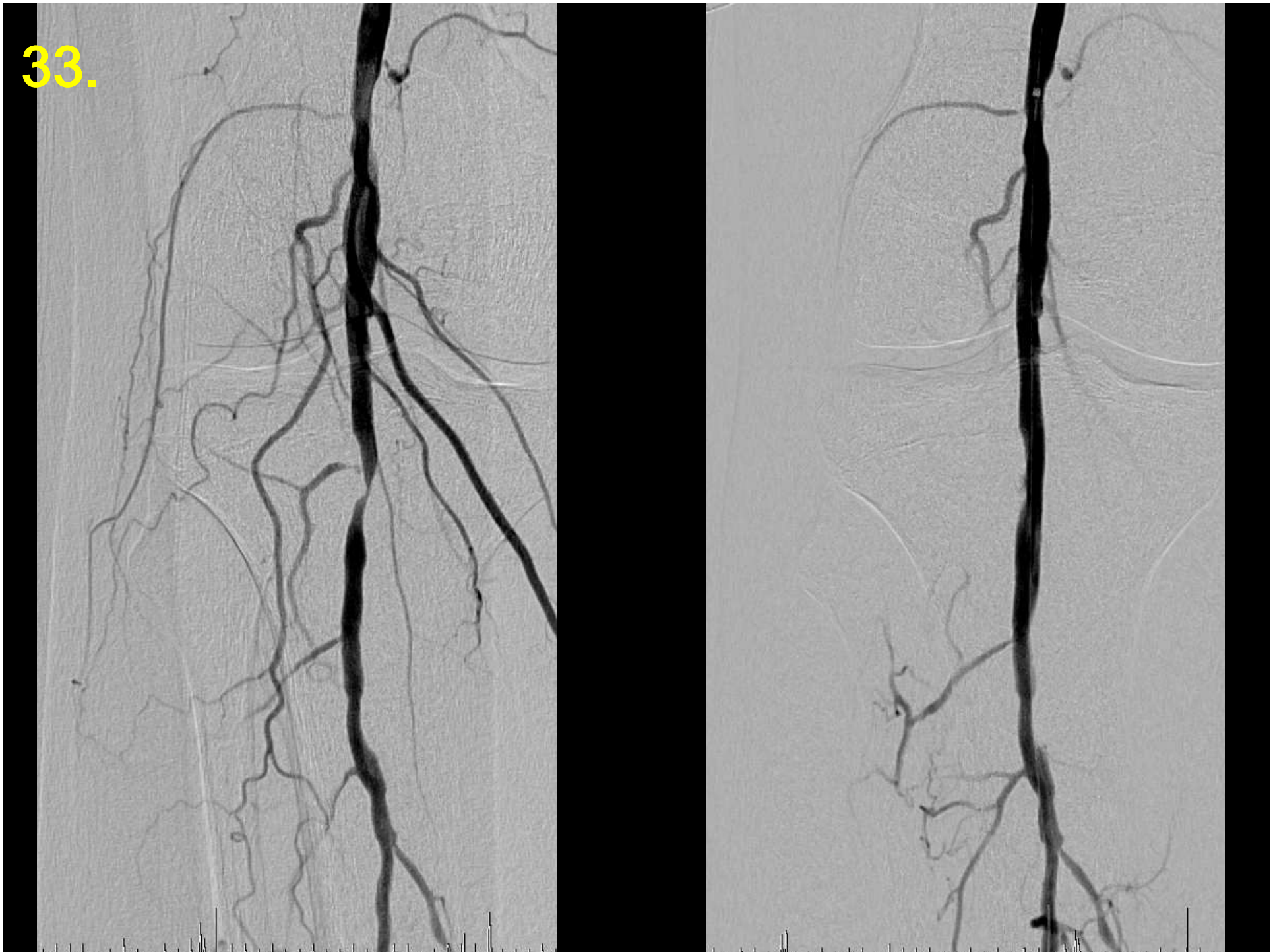
•Céltzott röntgenfelvétel és DSA / Spot film and DSA

•PTA (perkután transzluminális angioplasztika) / PTA (percutaneous transluminal angioplasty)

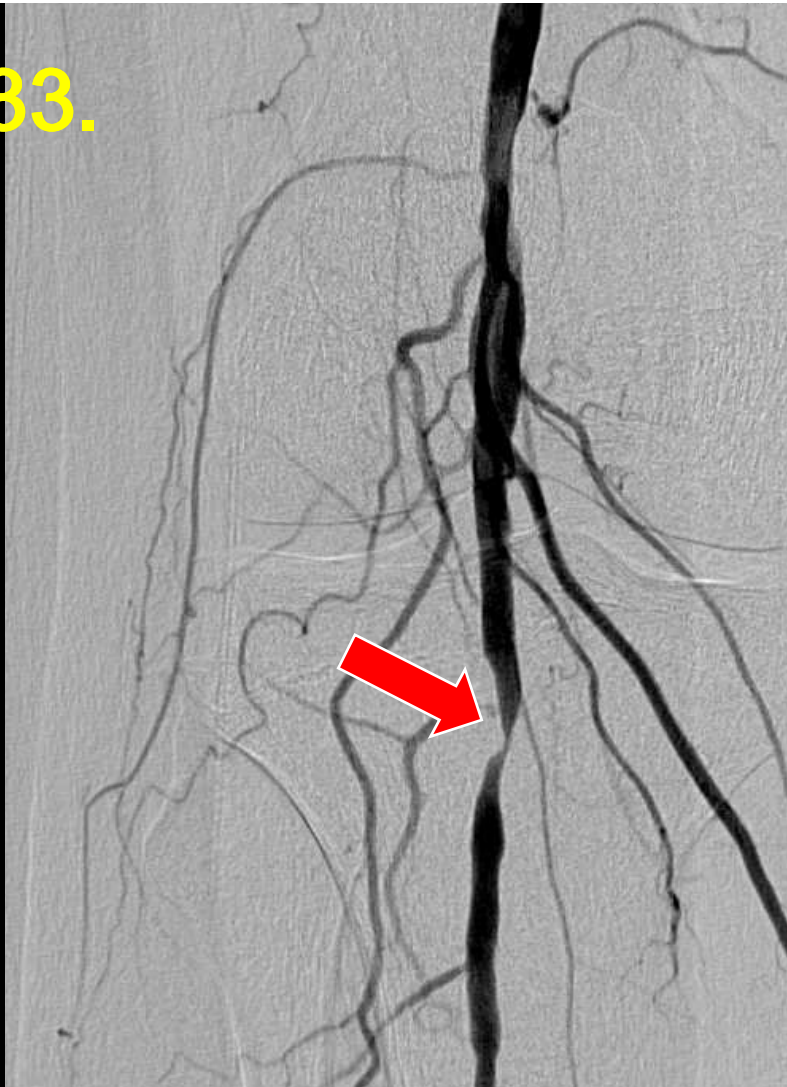
•A. carotis interna-tágítás és stentbehelyezéssel / Dilatation of the internal carotid artery with stenting



33.



33.



- DSA
- A. poplitea / Popliteal artery
- Szigifikáns sztenózis a jobb a. popliteán / Significant stenosis on the right popliteal artery



- DSA
- Jobb a. poplitea PTA után / Right popliteal artery after PTA

34.



34.



- Az V. metatarsuscsont célzott röntgenfelvétele / Posteroanterior radiograph centered on fifth metatarsal

- Az V. metatarsusbázis haránttörése / Transverse fracture on the base of the 5th metatarsal

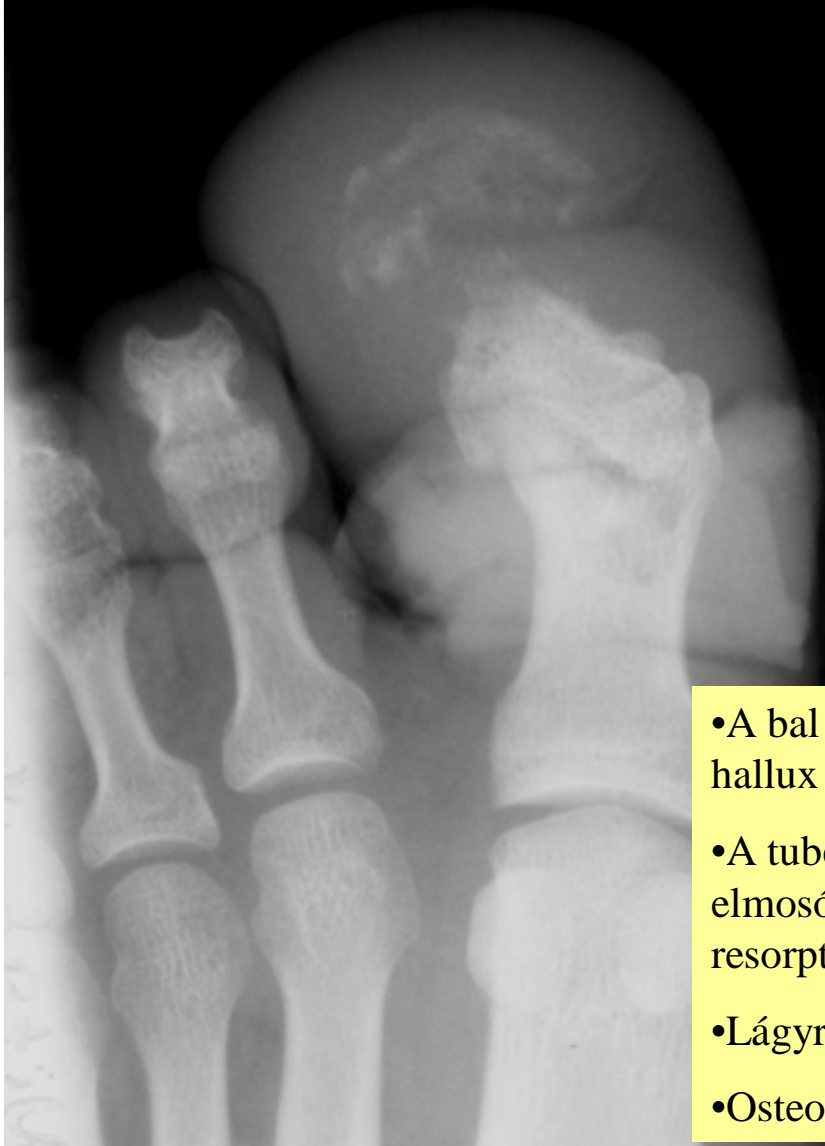
35.

E3



35.

E3

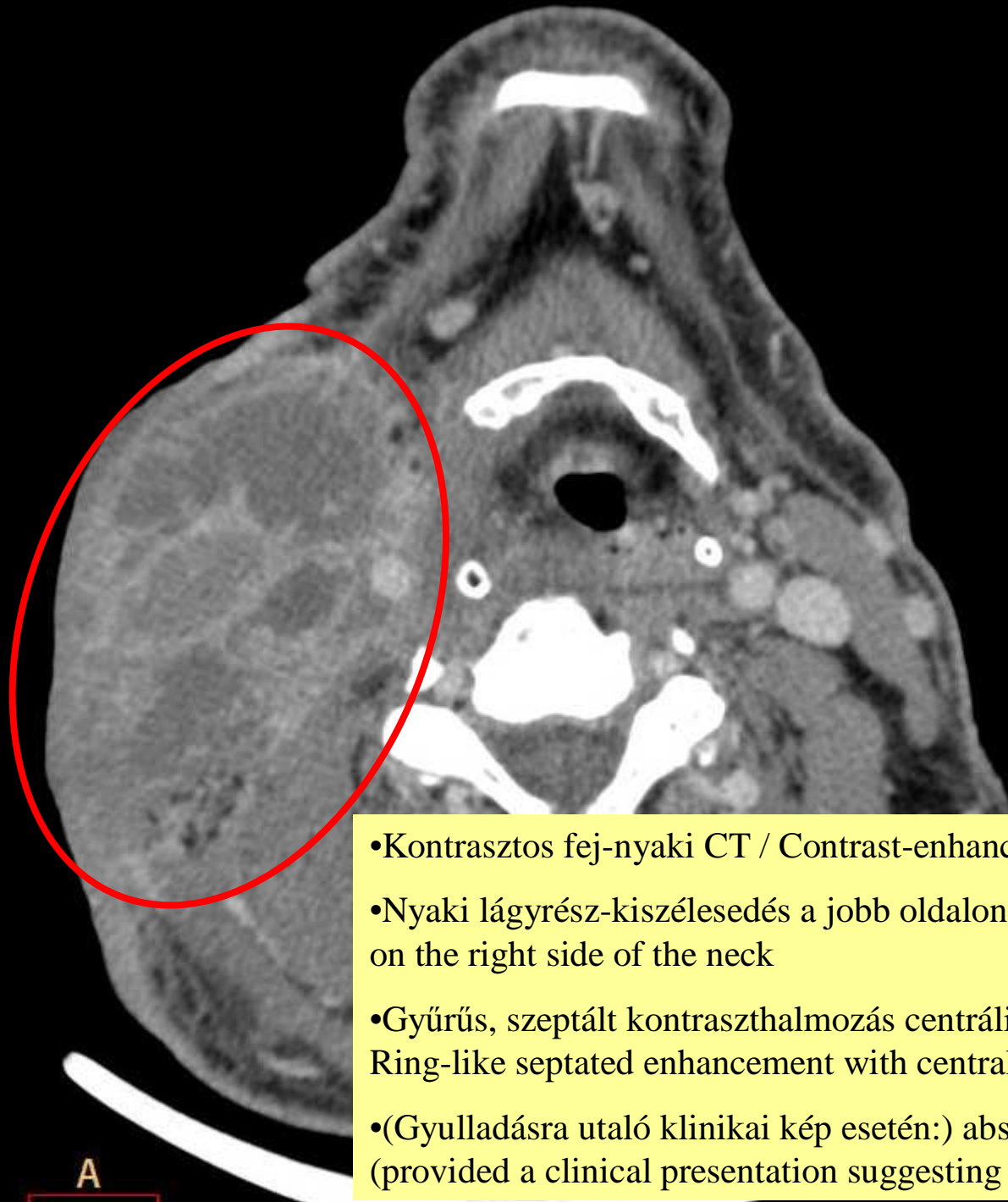


- A bal hallux kétirányú röntgenfelvétele / Radiograph of the left hallux in two projections
- A tuberositas distalis (= processus unguicularis) csontállománya elmosódott határral nagyrészt felszívódott / Marked ill-defined bone resorption in distal tuberosity (= unguual process)
- Lágyrész-kiszéledés / Soft tissue swelling
- Osteomyelitis

36.

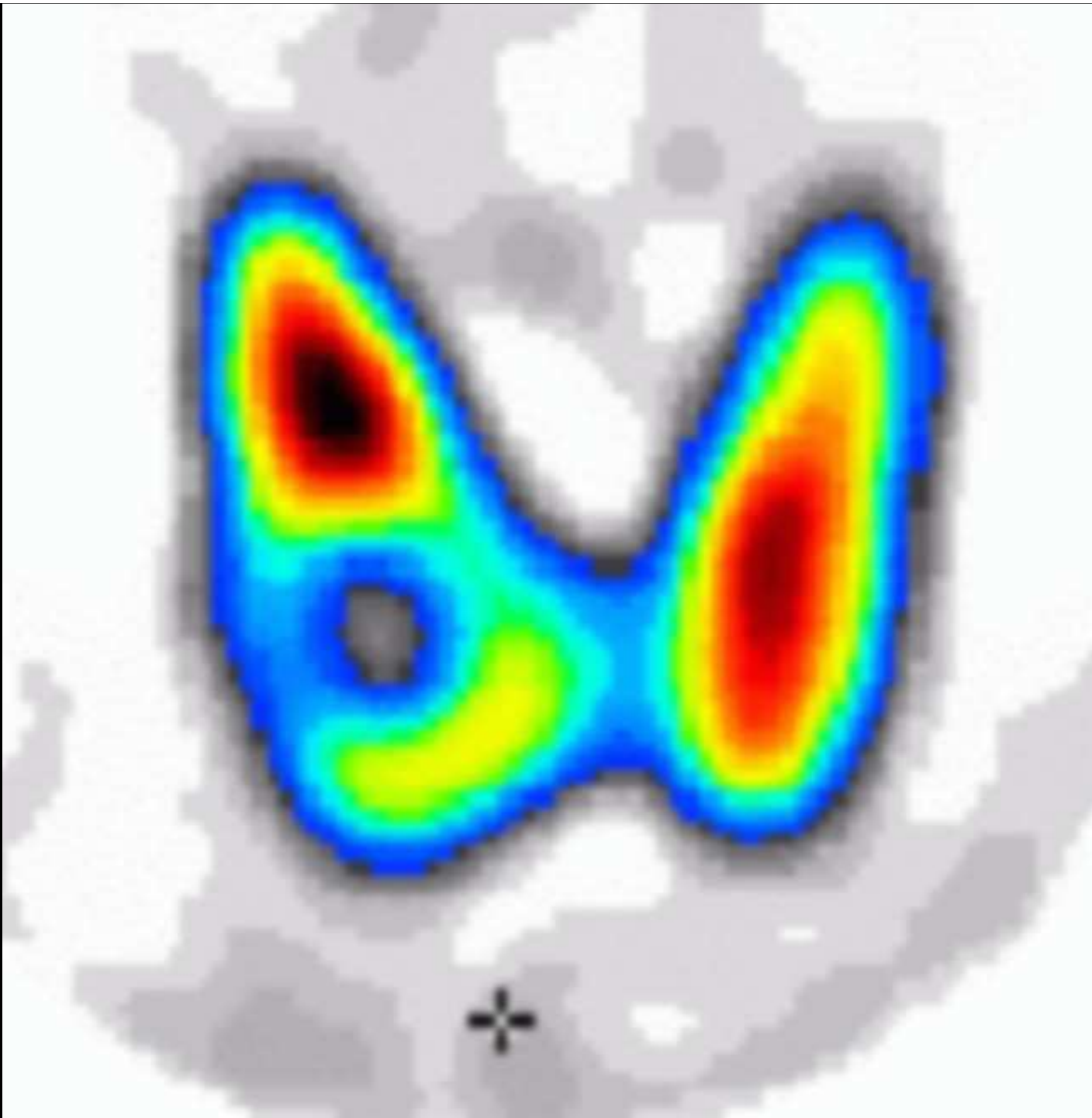


36.

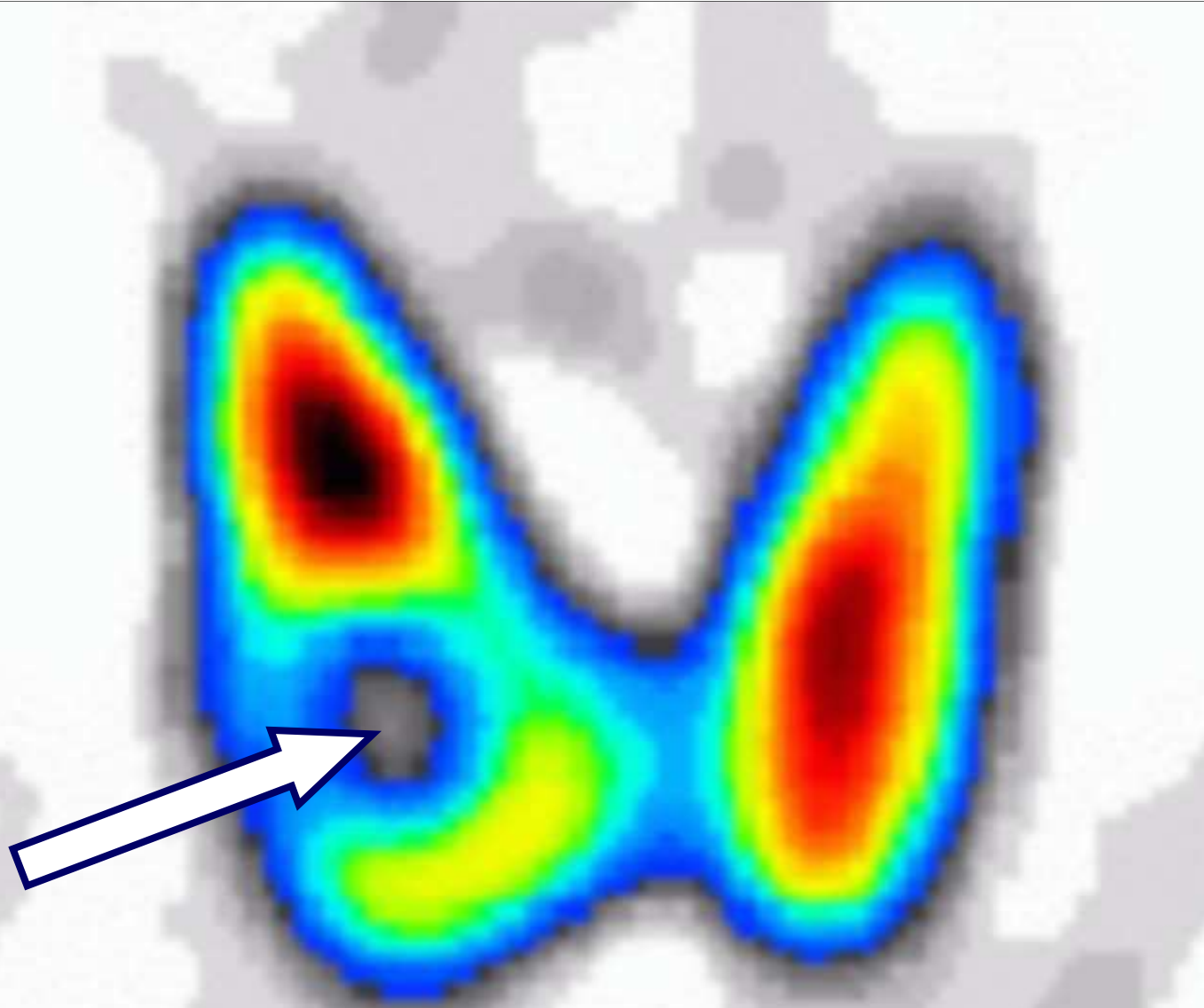


- Kontrasztos fej-nyaki CT / Contrast-enhanced head-and-neck CT
- Nyaki lágyrész-kiszélesedés a jobb oldalon / Soft-tissue widening on the right side of the neck
- Gyűrűs, szeptált kontraszthalmozás centrális hipodenzitással / Ring-like septated enhancement with central hypodensities
- (Gyulladásra utaló klinikai kép esetén:) abscessus / Abscess (provided a clinical presentation suggesting inflammation)

37.



37.



- Pajzsmirigyszcintigram / Thyroid gland scintigram
- Megnagyobbodott jobb lebeny / Right lobe enlargement
- Aktivitáskiesés a jobb lebeny közepén: hideg göb / Loss of activity in the centre of the right lobe: cold nodule

38.

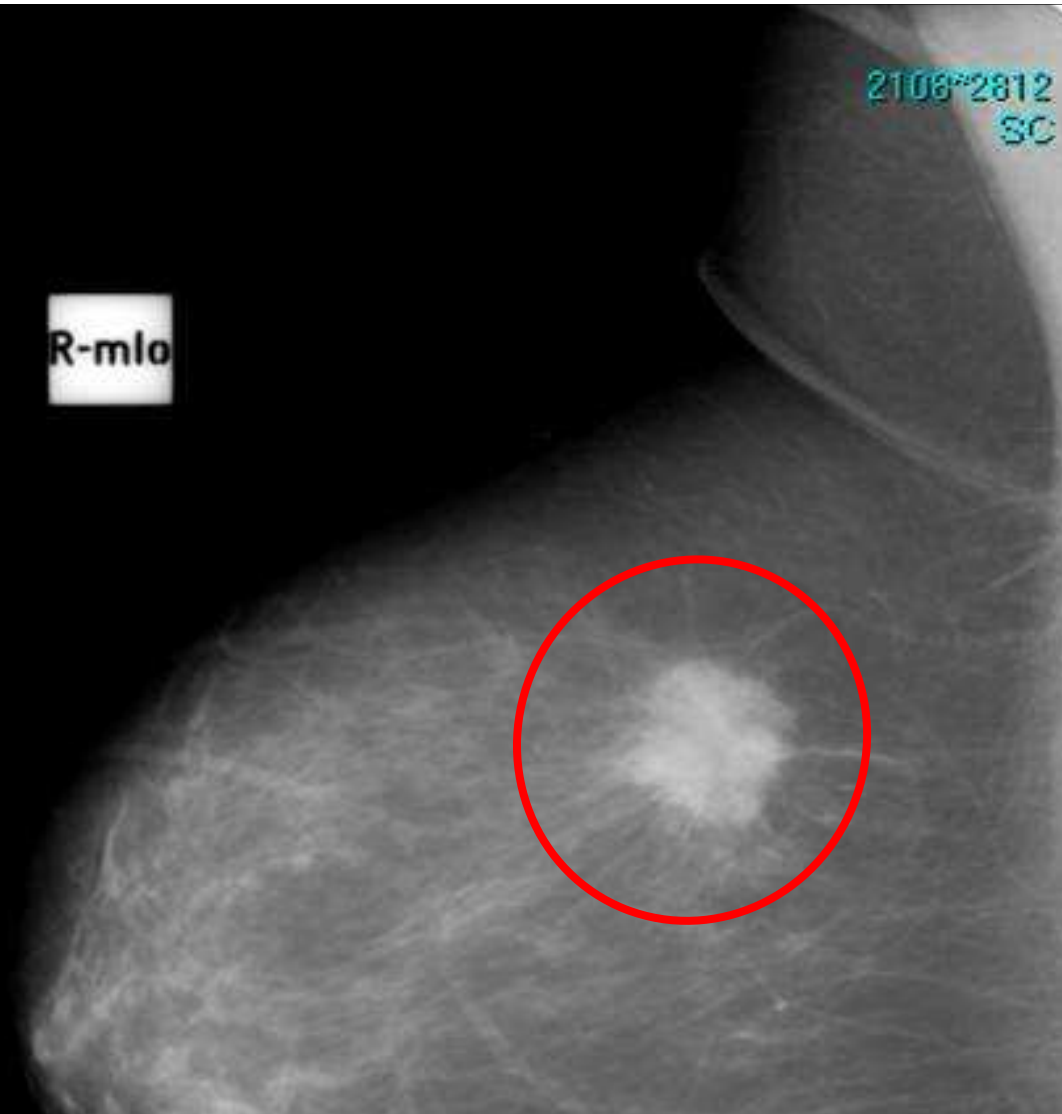
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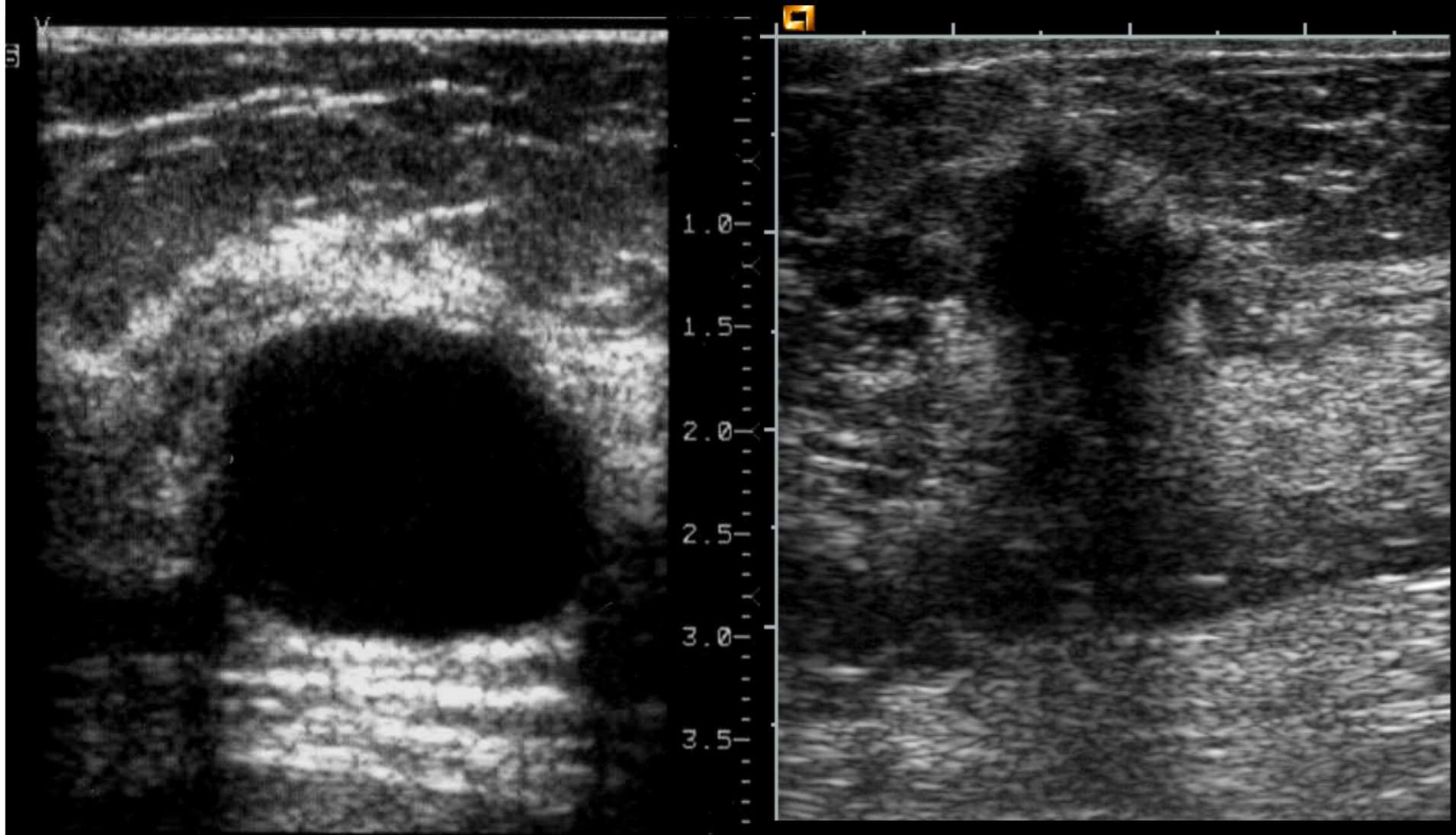
5/6

38.



- Mammográfia, jobb emlő, ferde felvétel / Mammography of right breast, oblique view
- Lágy sugár-technika (30 keV) / Soft-beam technique (30 keV)
- Spikulált lágyrészárnyék / Soft tissue mass with spiculated contour
- Emlőcarcinoma / Breast cancer

39.

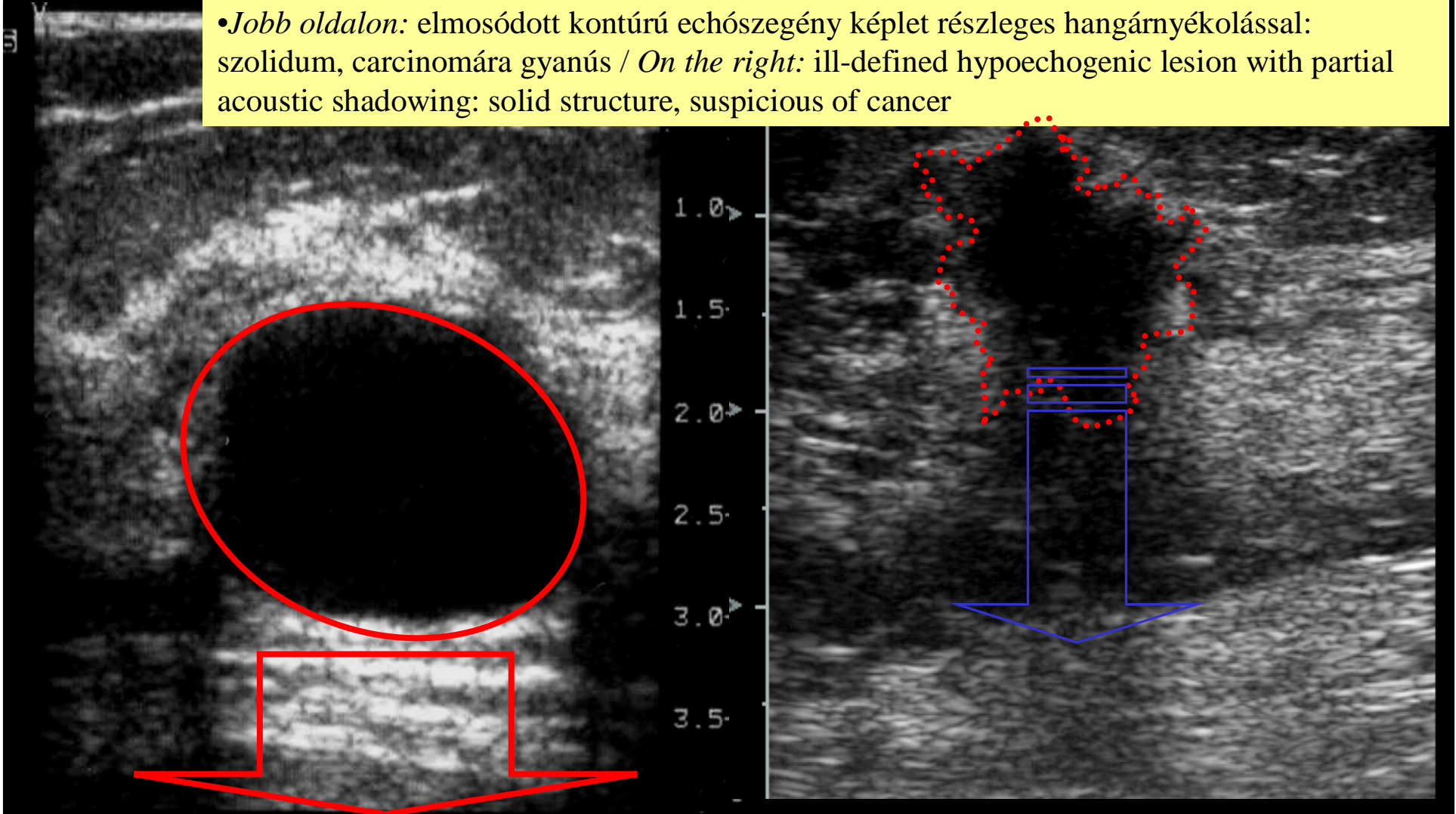


39.

•Emlőultrahang lineáris fejjel (7,5–10 MHz; max. 4 cm-es vizsgálati mélység) /
Breast sonography with linear probe (7.5–10 MHz; imaging depth of 4 cm maximum)

•*Bal oldalon:* echómentes, jól körülírt képlet mögöttes hangerősítéssel = cysta /
On the left: well-defined anechoic lesion with acoustic enhancement behind = cyst

•*Jobb oldalon:* elmosódott kontúrú echószegény képlet részleges hangárnyékolással:
szolidum, carcinomára gyanús / *On the right:* ill-defined hypoechogenic lesion with partial
acoustic shadowing: solid structure, suspicious of cancer



40.

Coronal3 Volume 2/Volume 1
A: 16.4
DFOV 82.6cm

8.0

R

4
1
3

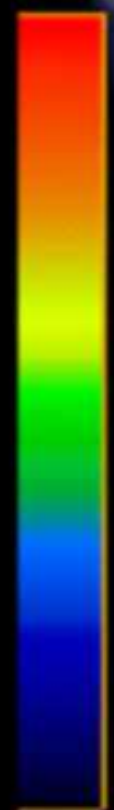
0.0

50 % PET

14.1/Average

m=0.0 M=8.0 g/ml

1.203

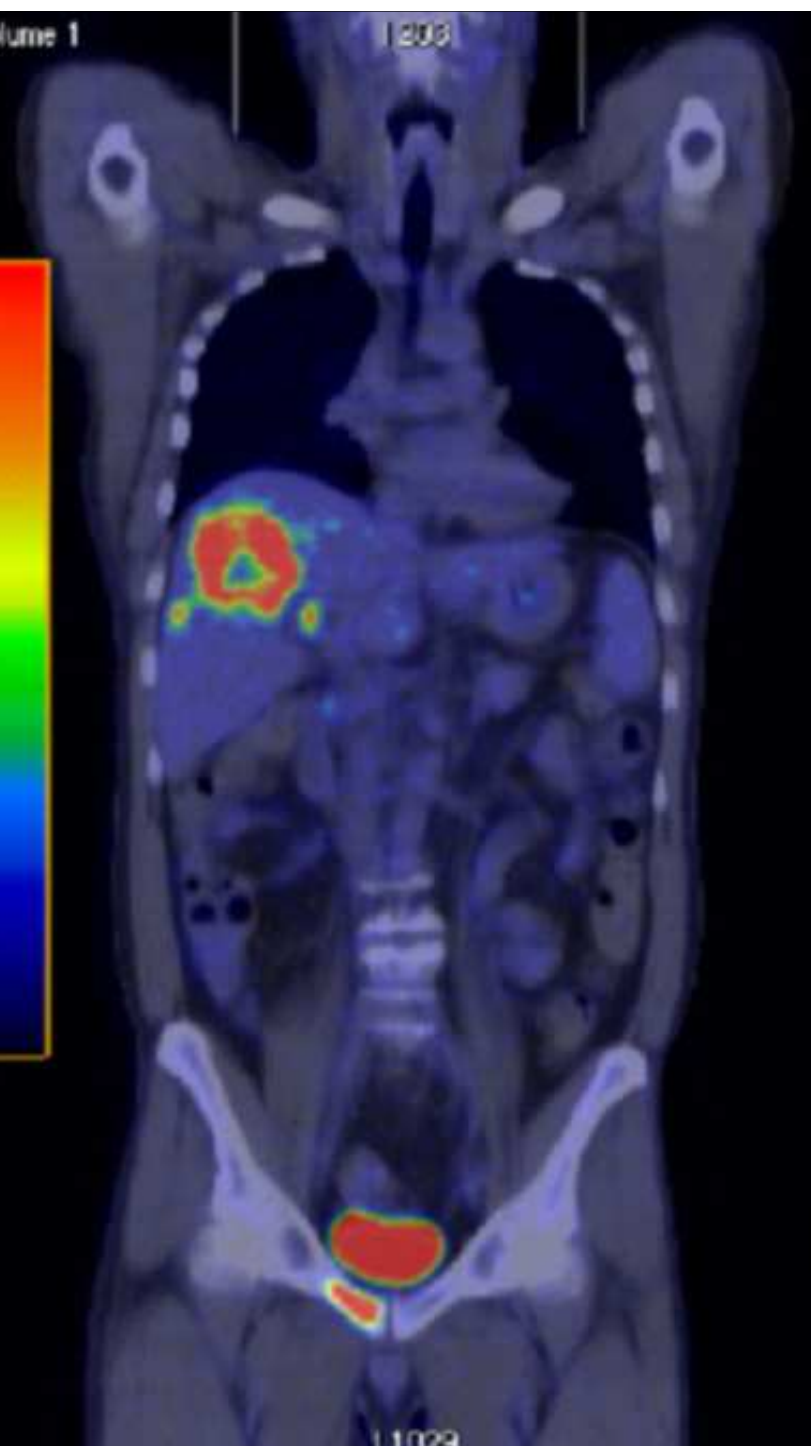


L

4
1
3

V=6.88

1.1029



40.

Coronal3 Volume 2/Volume 1
A: 16.4
DFDV 82.6cm

8.0

R

4

1

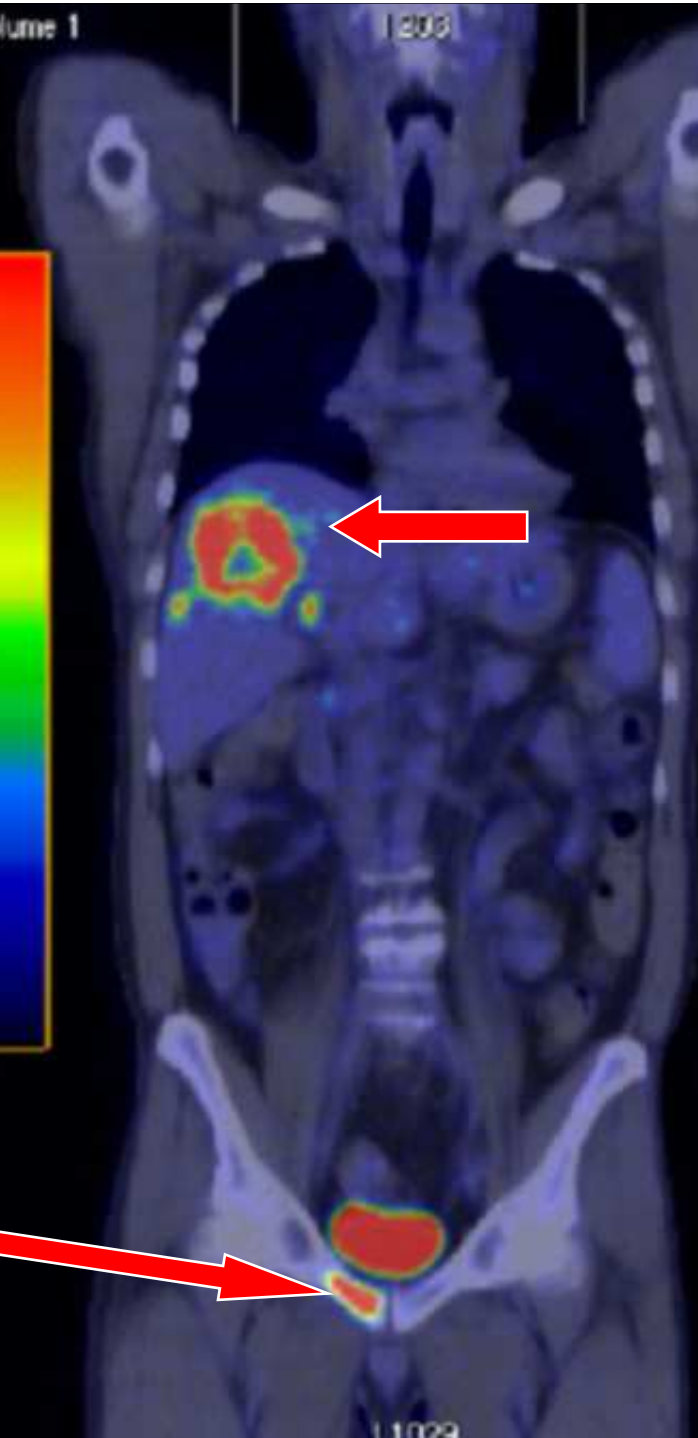
3

0.0

50 % PET

14.1/Average

m=0.0 M=8.0 g/ml



- PET-CT (hidrid képalkotás) / PET-CT (hybrid imaging method)
- CT: jó morfológia + PET: metabolikus információ (glukózfelvétel mértéke) / CT: detailed morphology + PET: metabolic information (glucose uptake rate)
- Fokozott fluoro-dezoxi-glukóz- (^{18}F -FDG-) felvétel a májban és a jobb os pubisban / Increased fluorodeoxyglucose (^{18}F -FDG) uptake in liver and pubic bone
- Szabályos kiválasztás a húgyhólyagban / Normal excretion in urinary bladder
- Áttétek / Metastatic disease

V=6.88

11029

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