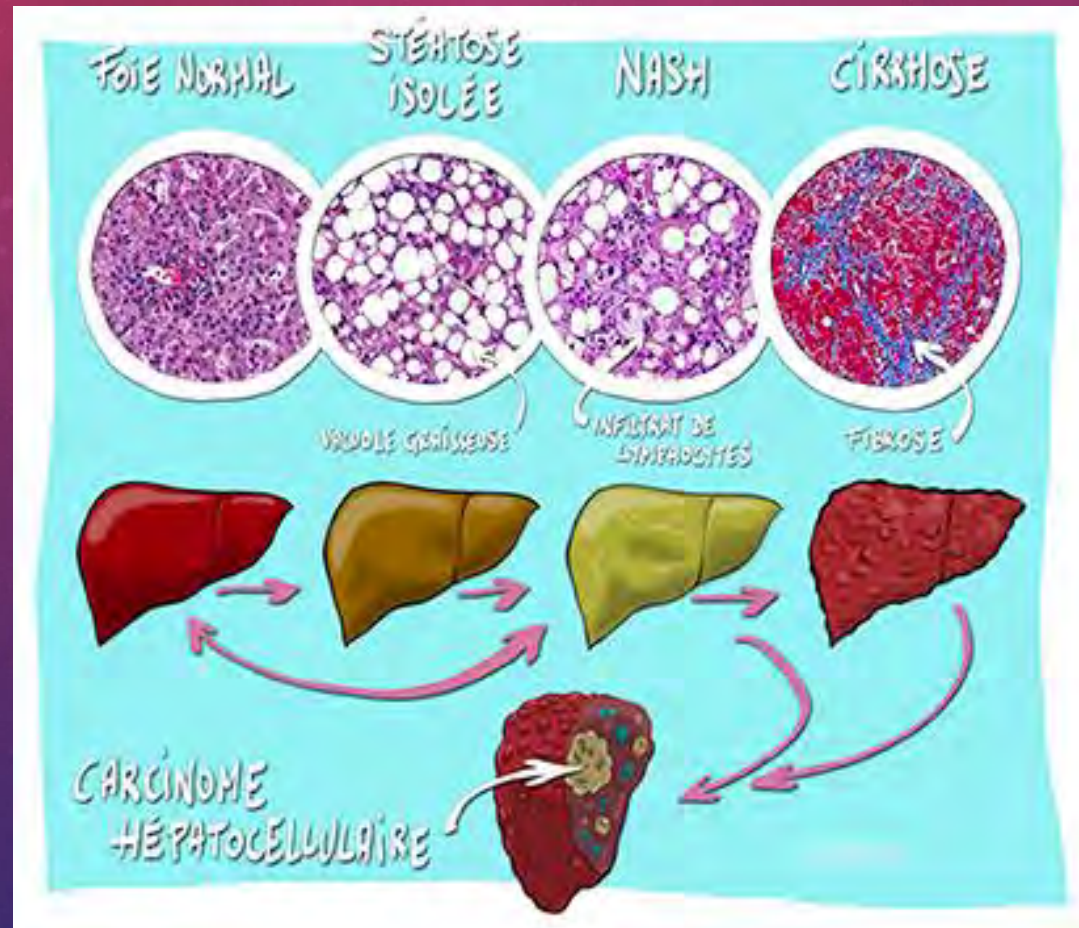


Radiologie Interventionnelle

Dr Tsepenshchikov / Dr Constantin
CHVR

«Meilleure contre-indication
c'est l'absence des indications»

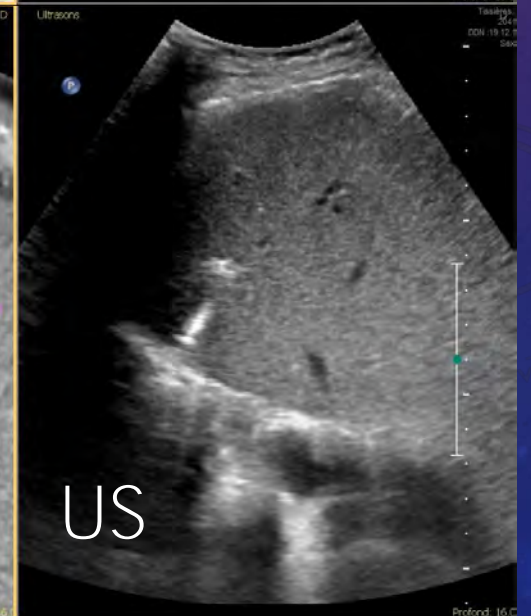
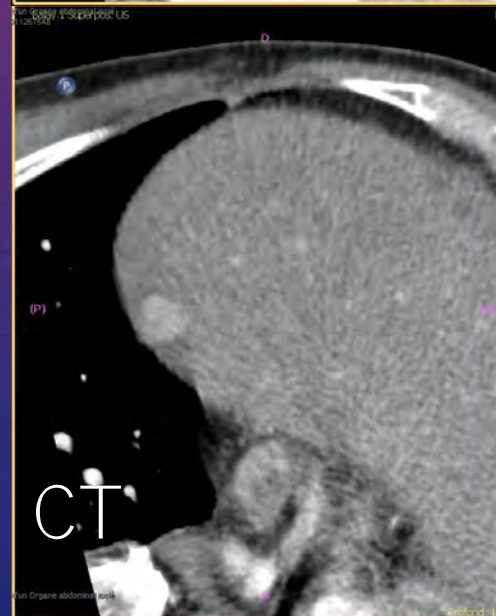
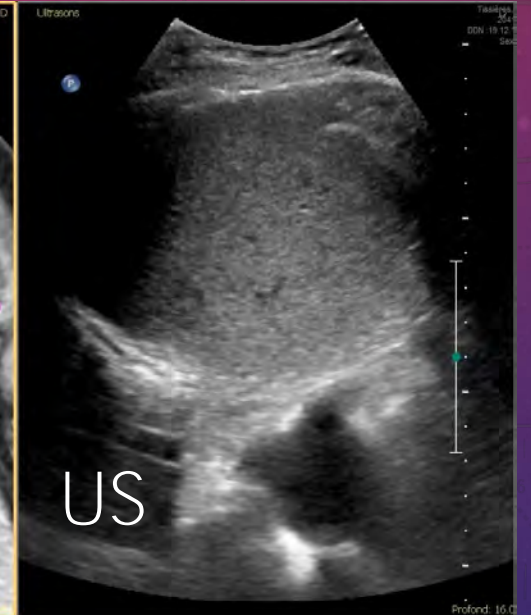
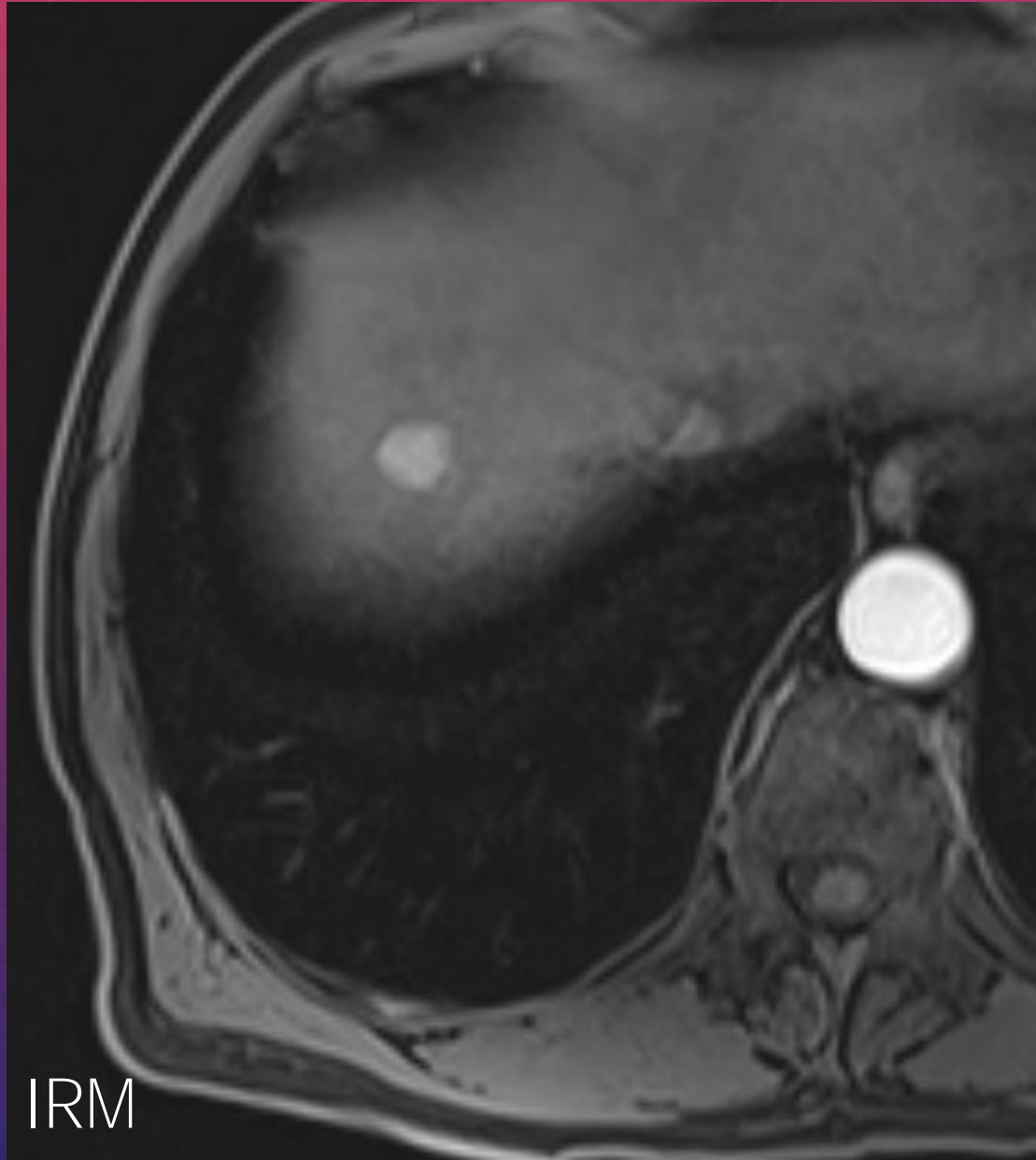


diagnostic histologique

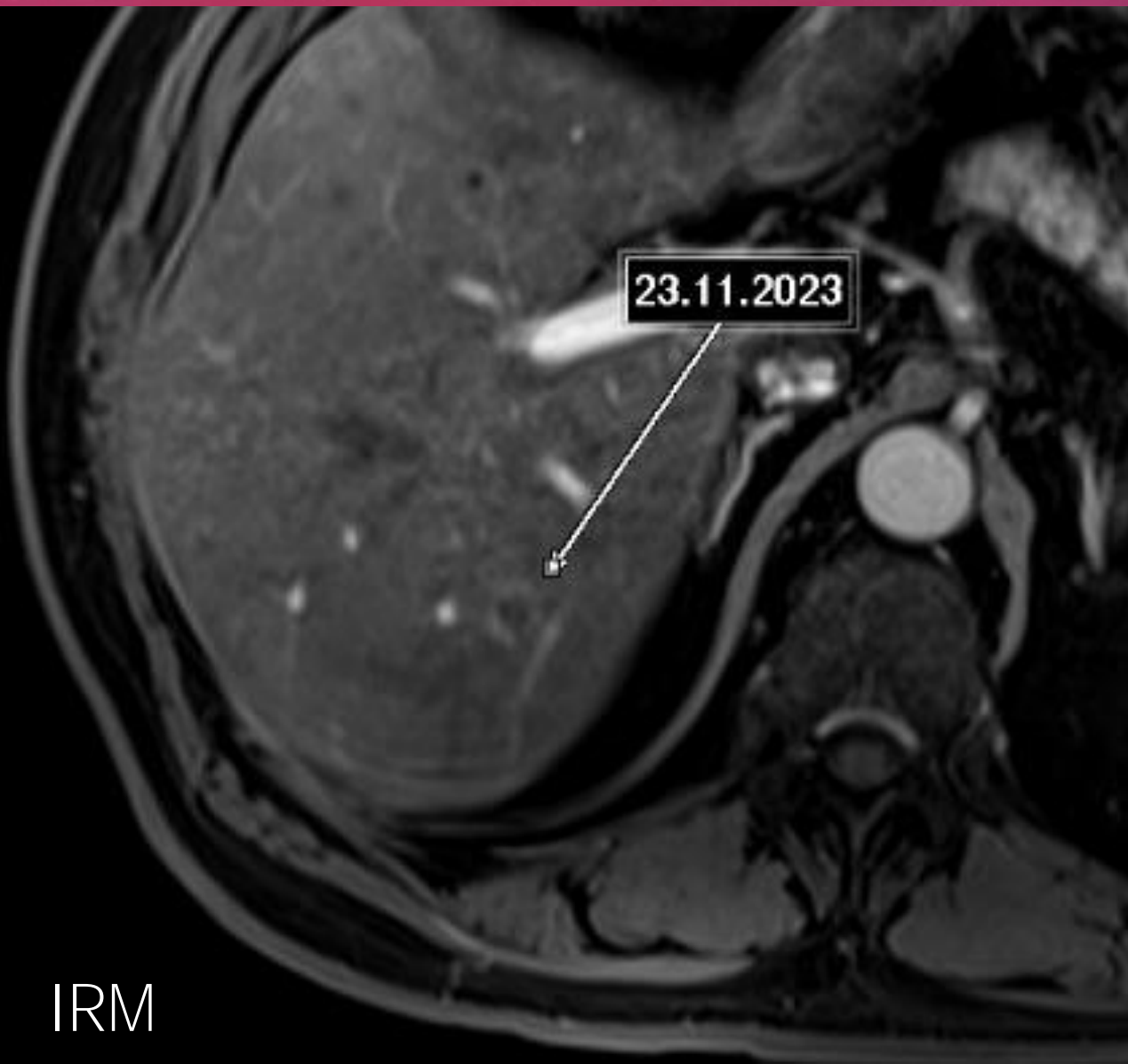
PBH ciblée



Fusion CT+US



Marquage lésionnel

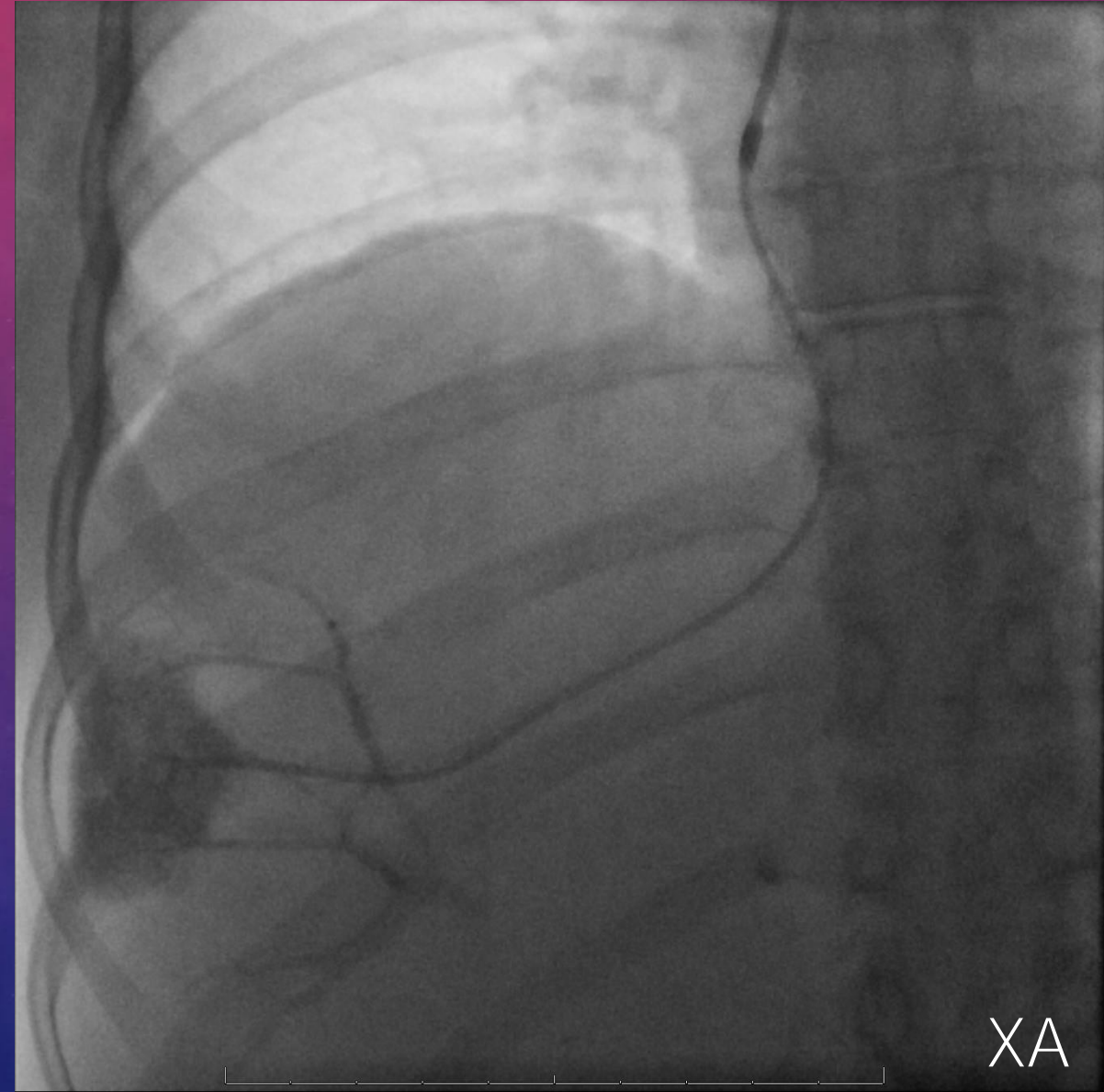


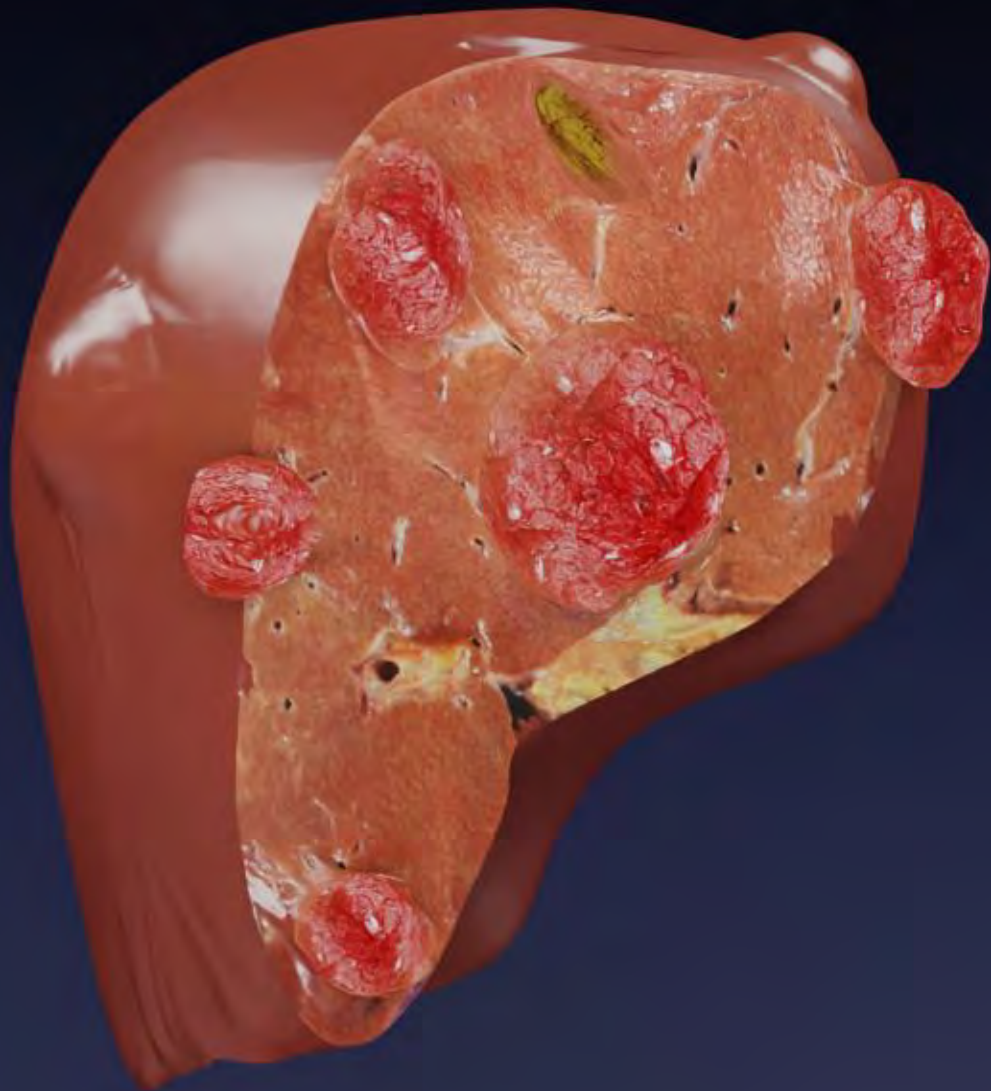
IRM



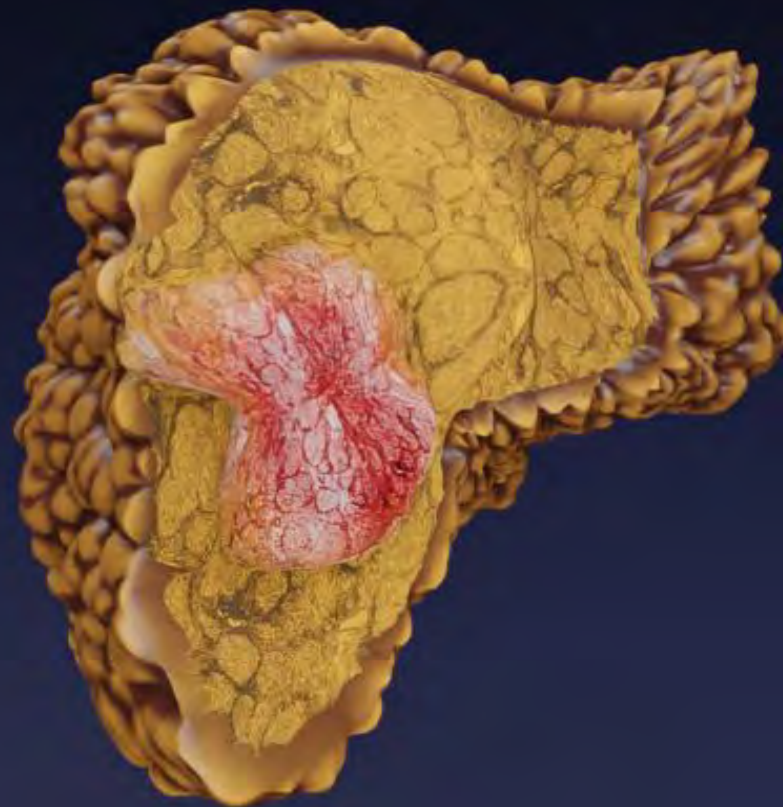
CT

PBH non ciblée + pression





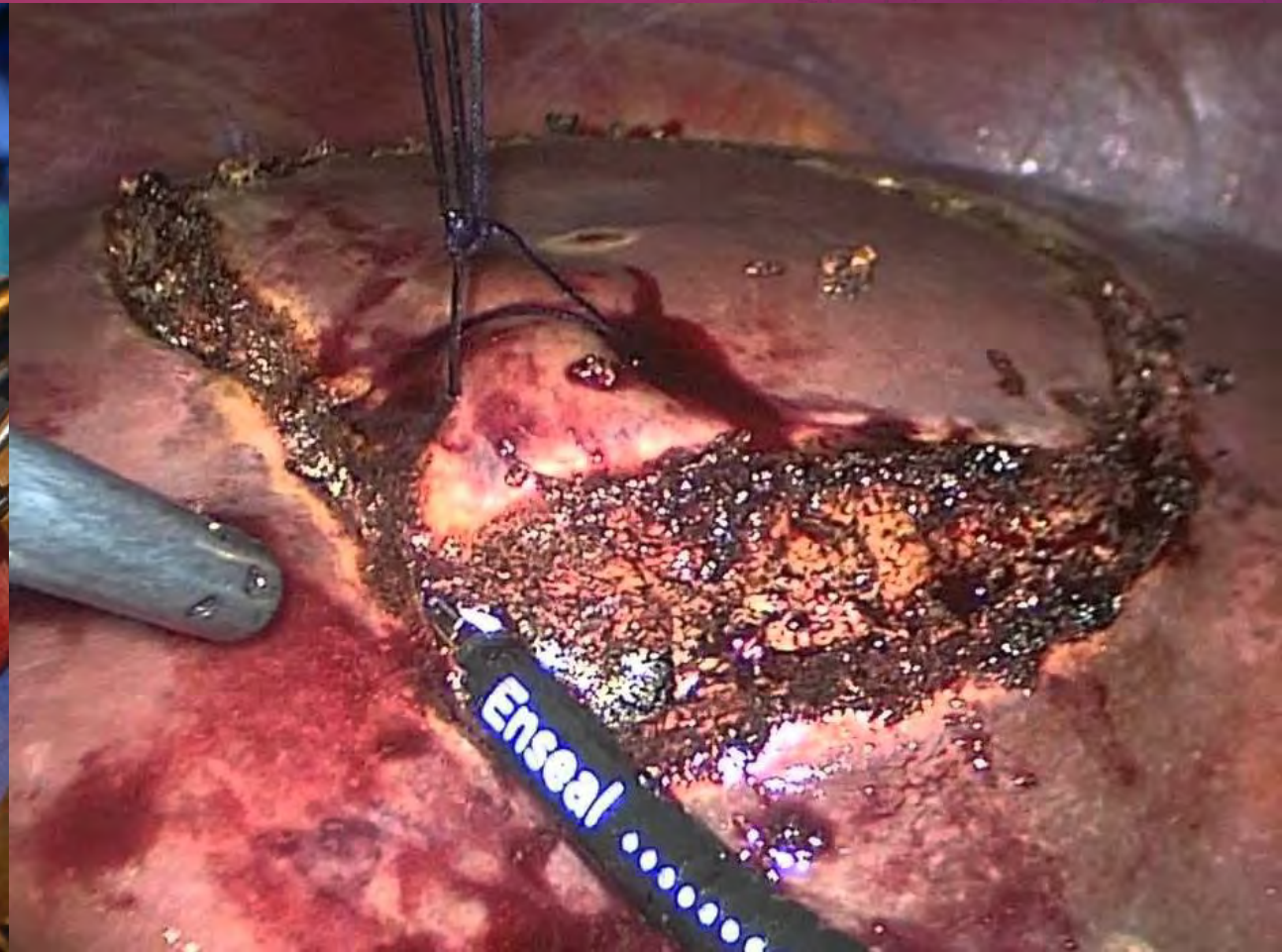
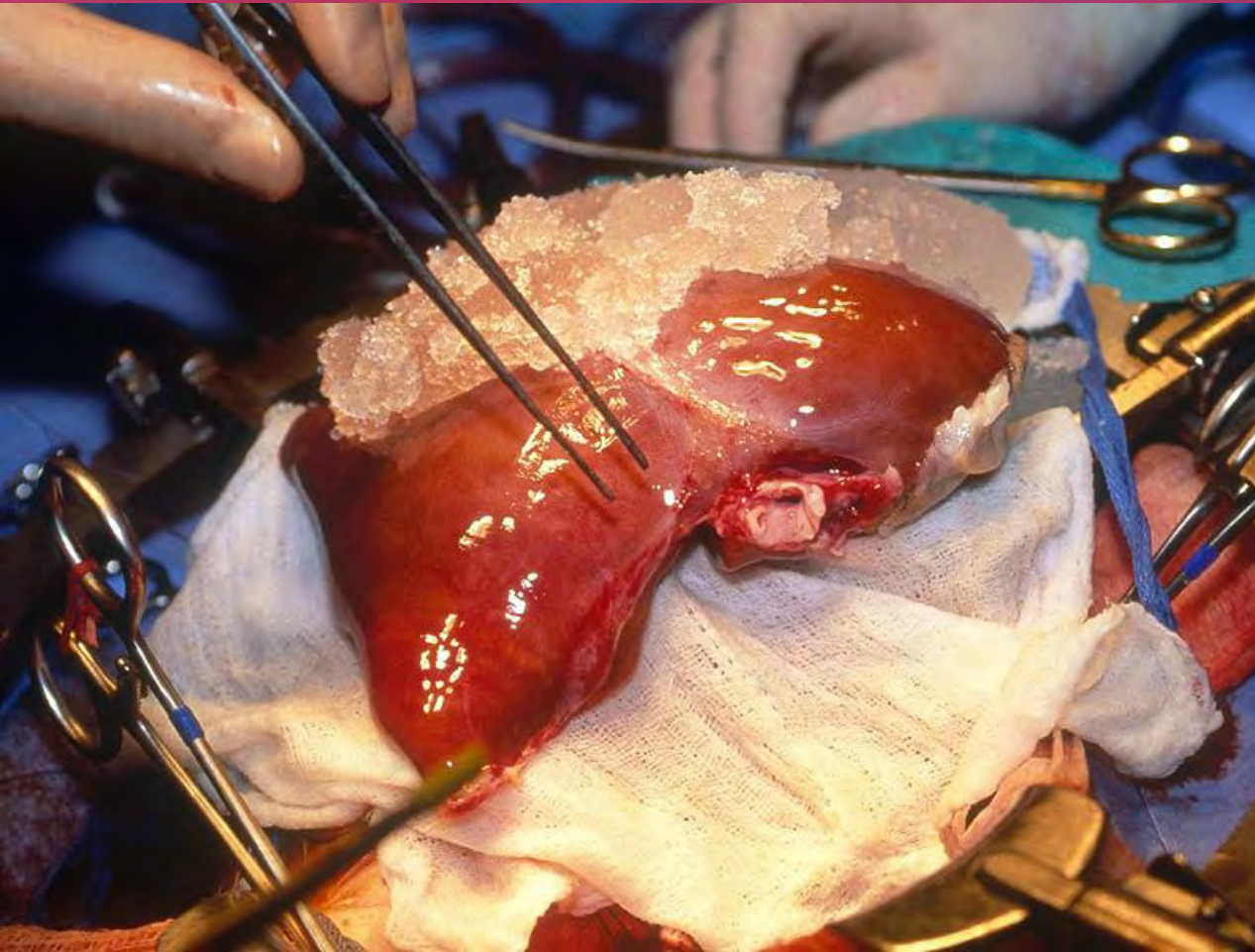
MTS



CHC

La chirurgie est la meilleure option

BCLC / Milan / ALBI / Child-Pugh / MELD

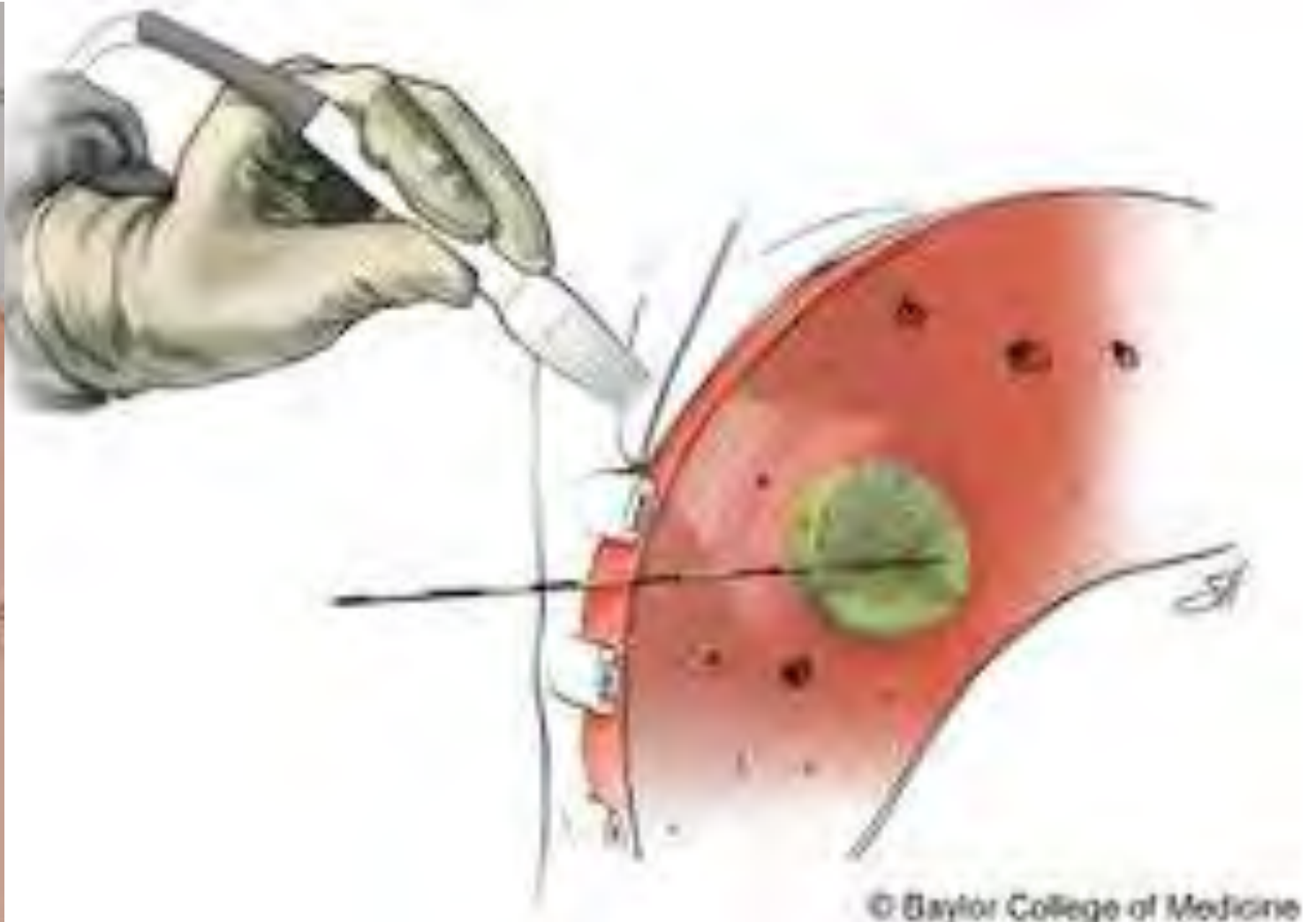
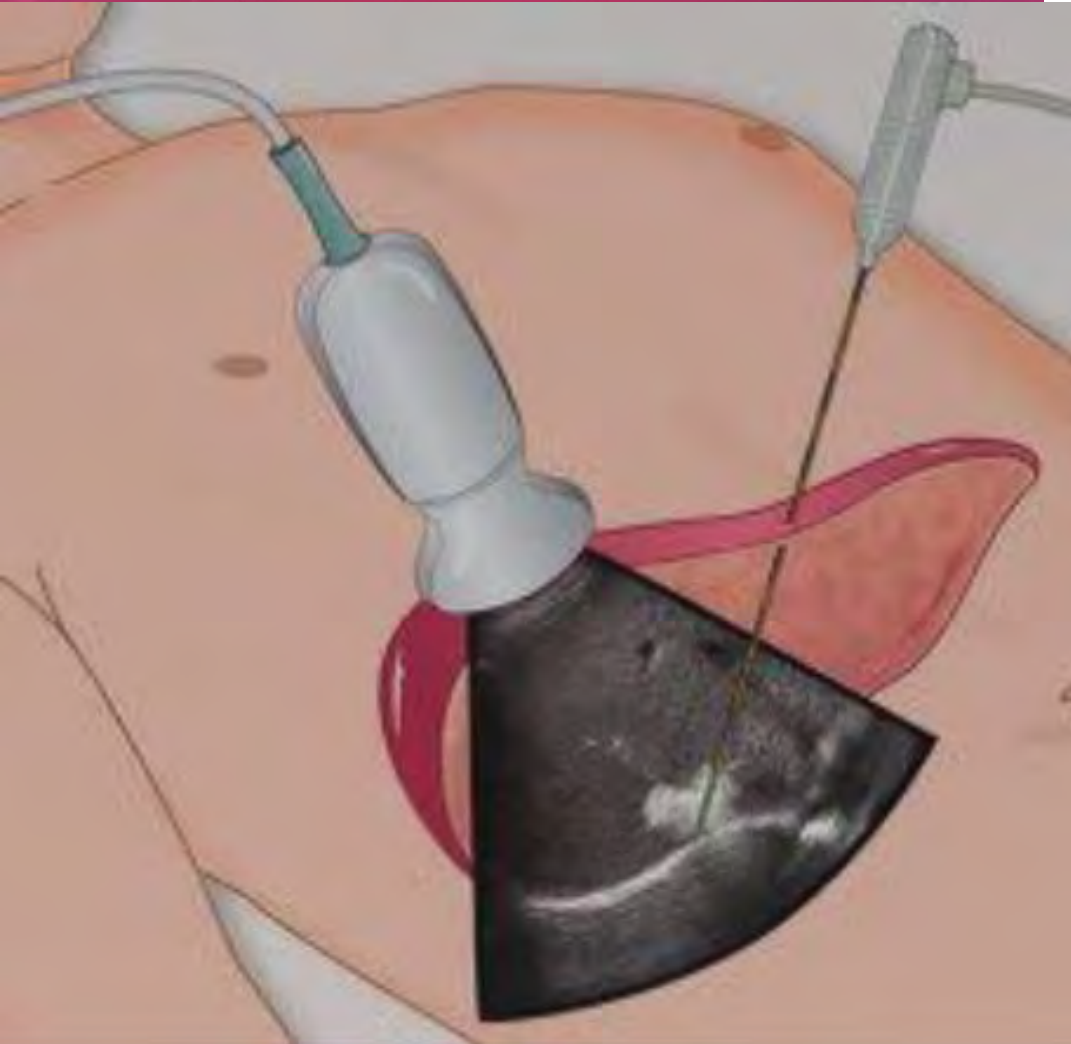


Moins de **20 %** des patients peuvent bénéficier d'un traitement chirurgical
(Early / Intermediate stage - A,B)

DOI: 10.1002/hep.23181.

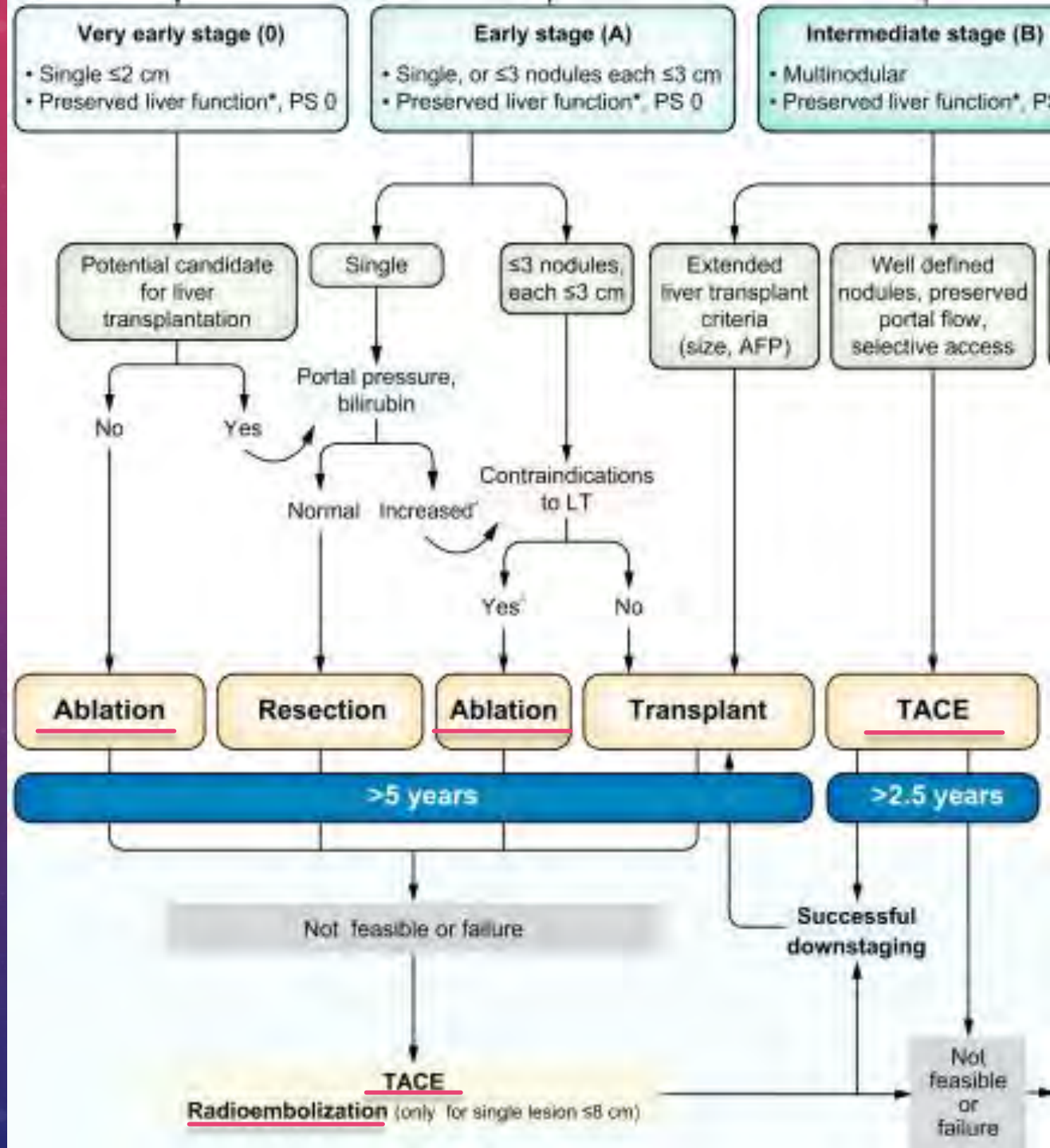
Le choix pour les 80 % restants est RI

(Early / Intermediate stage - A,B)



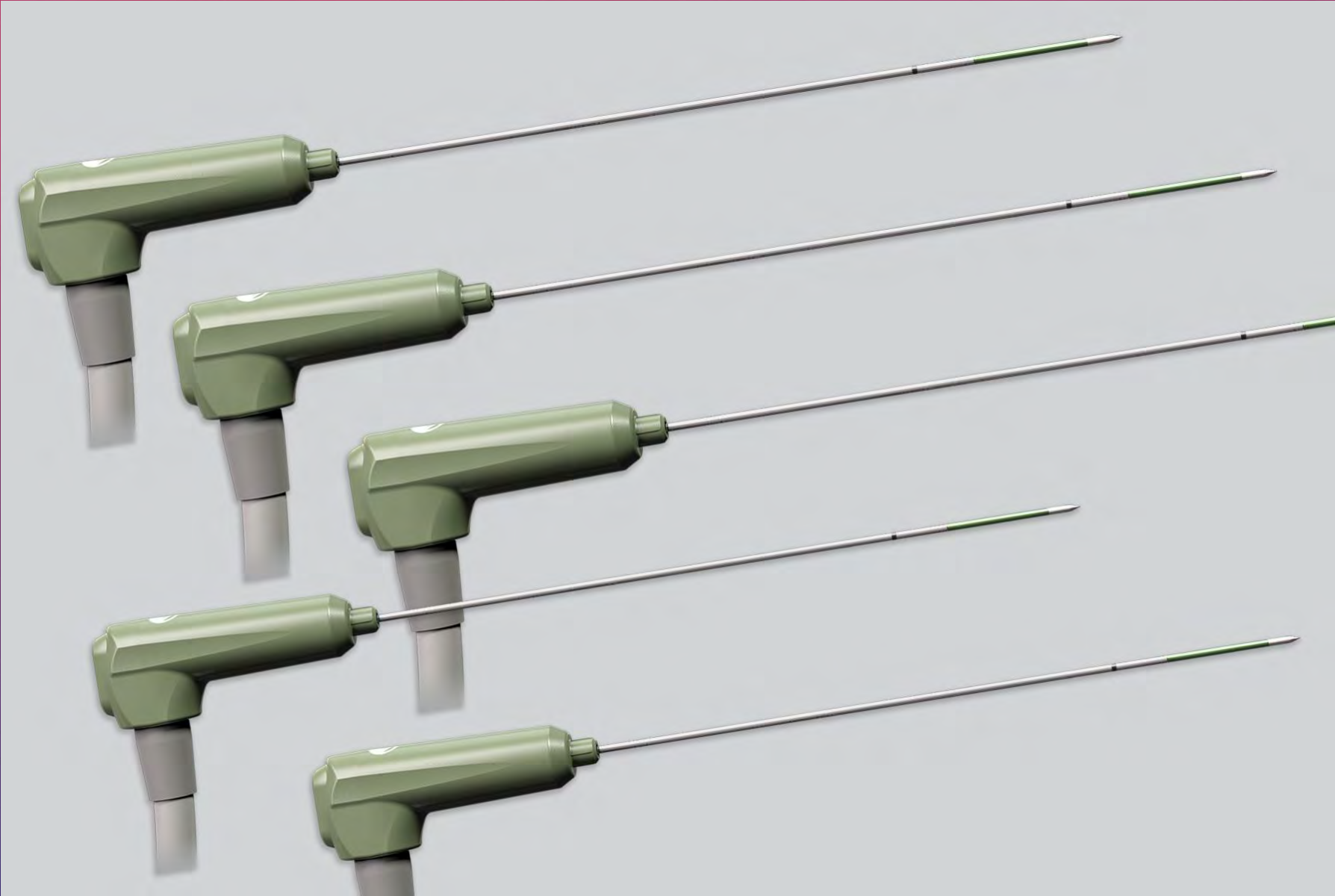


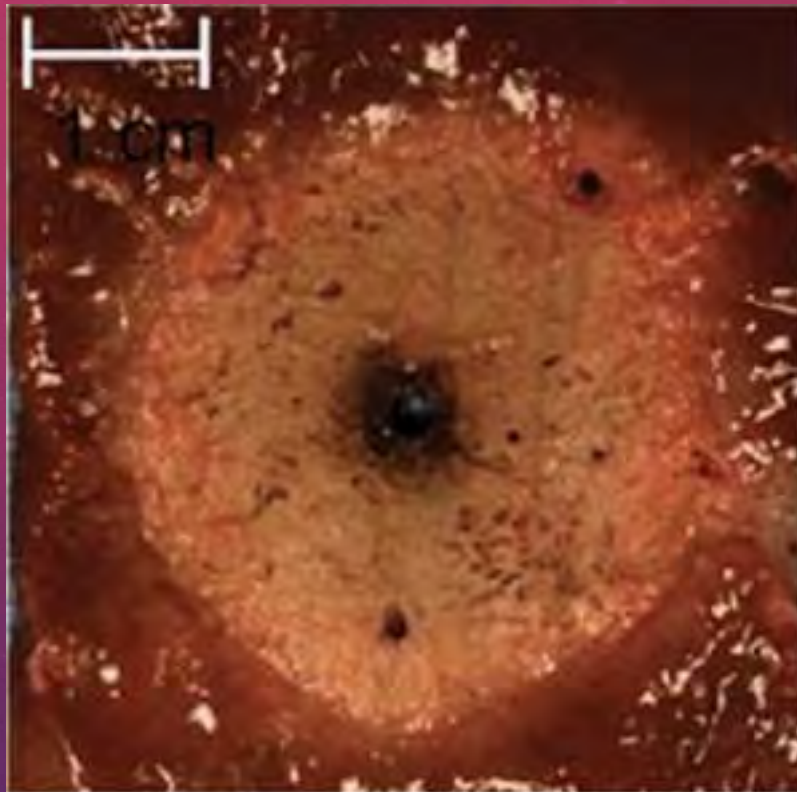
CYTOTOXIC



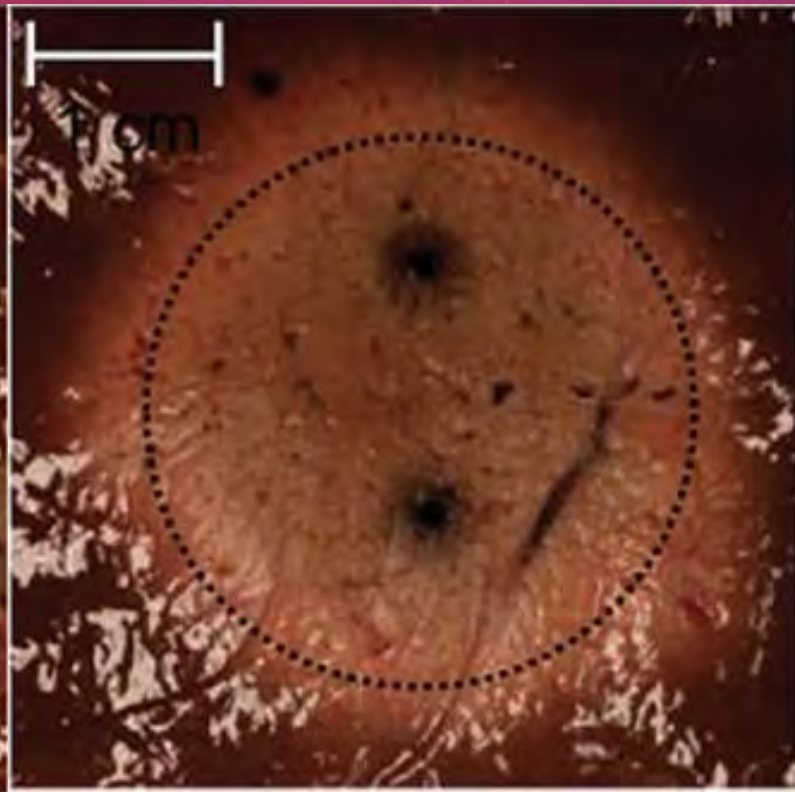


MWA «NeuWave»

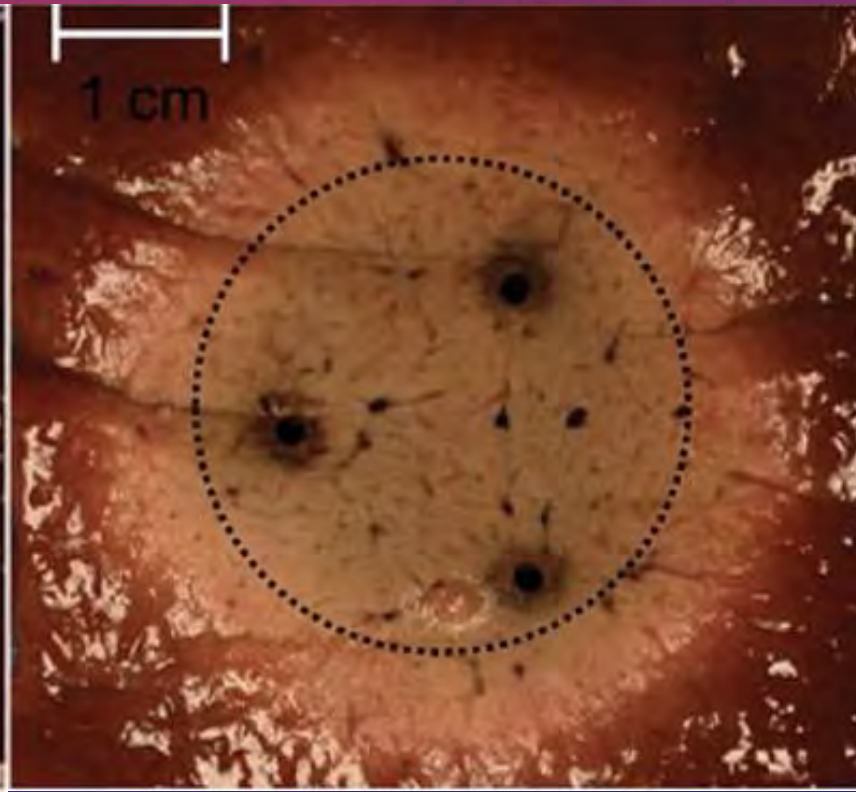




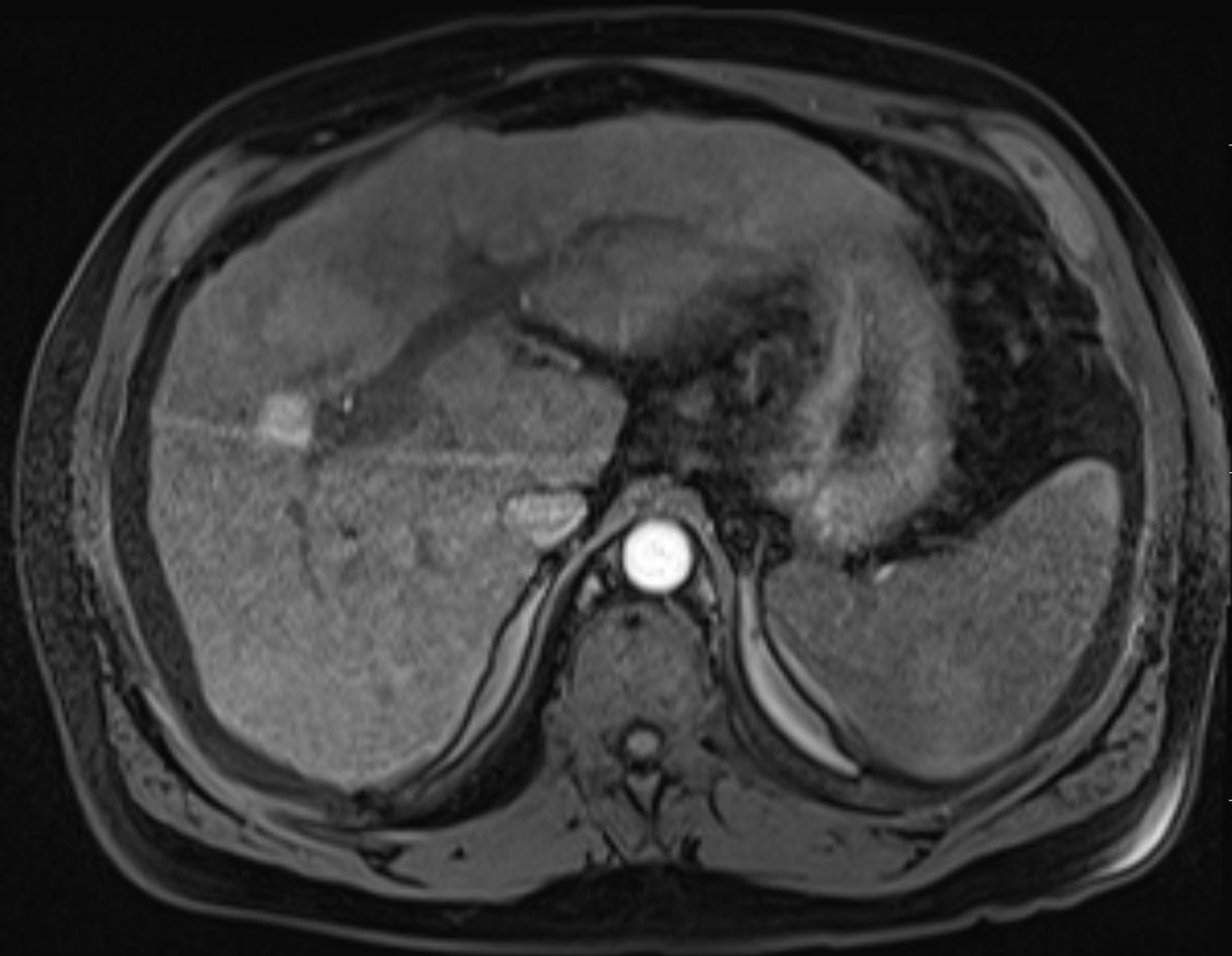
1x90W
5 min



2x45W
5 min



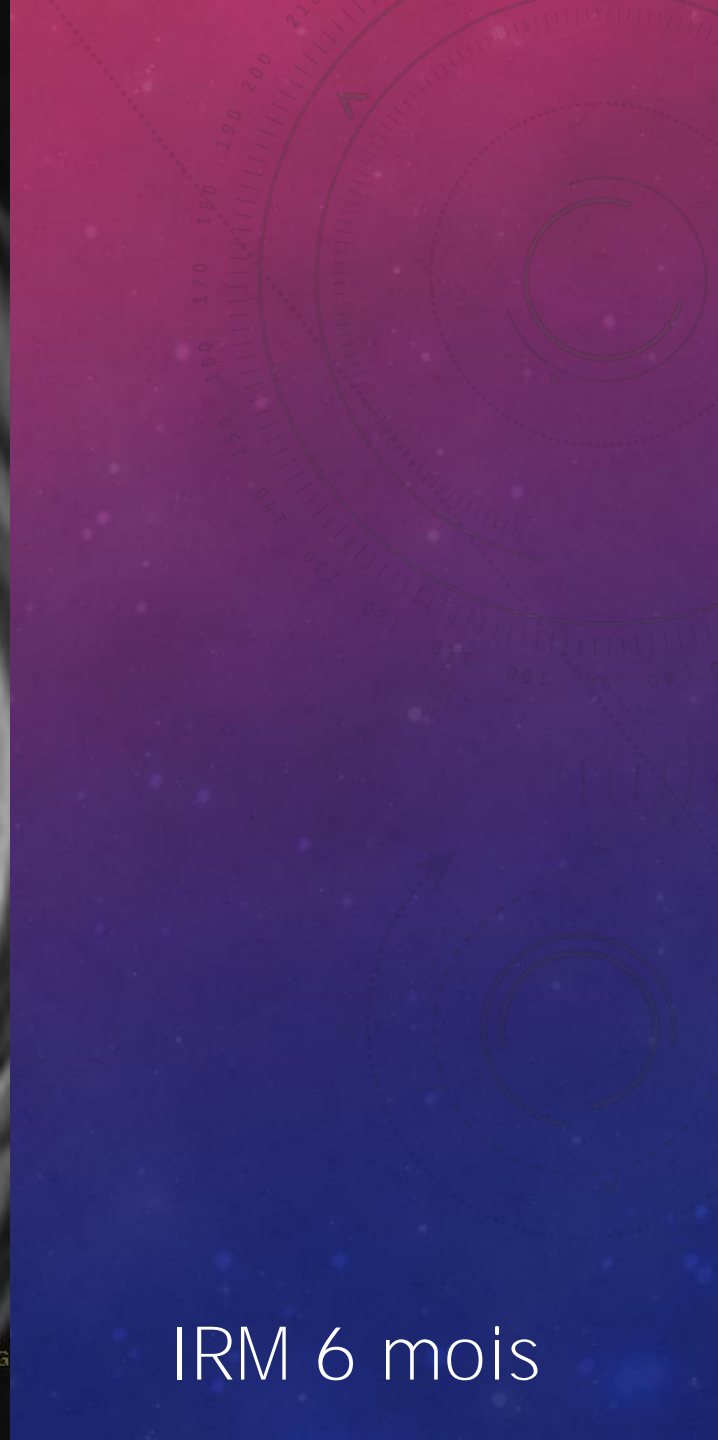
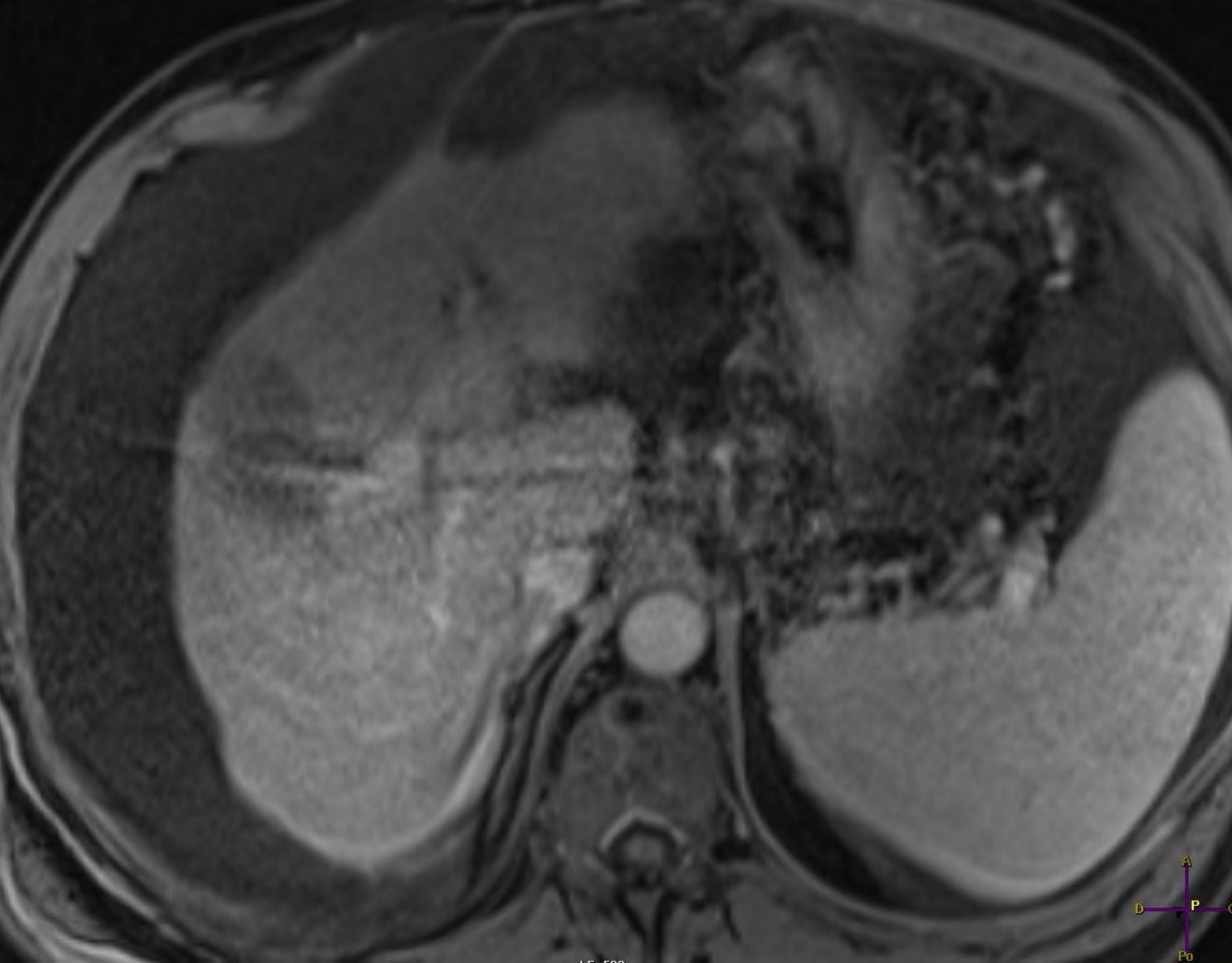
3x30W
5 min



NASH, Child-Pugh B9
CHC 18mm V-VIII



CT 24H

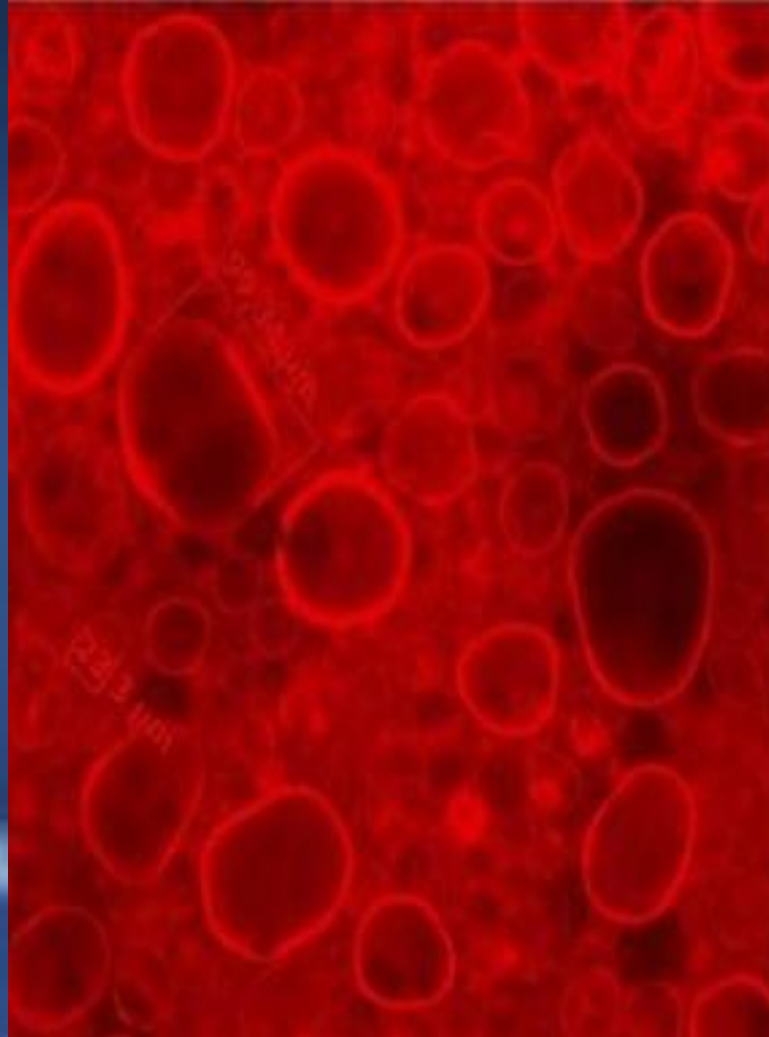


IRM 6 mois

CYTOTOXIC



TACE



TACE



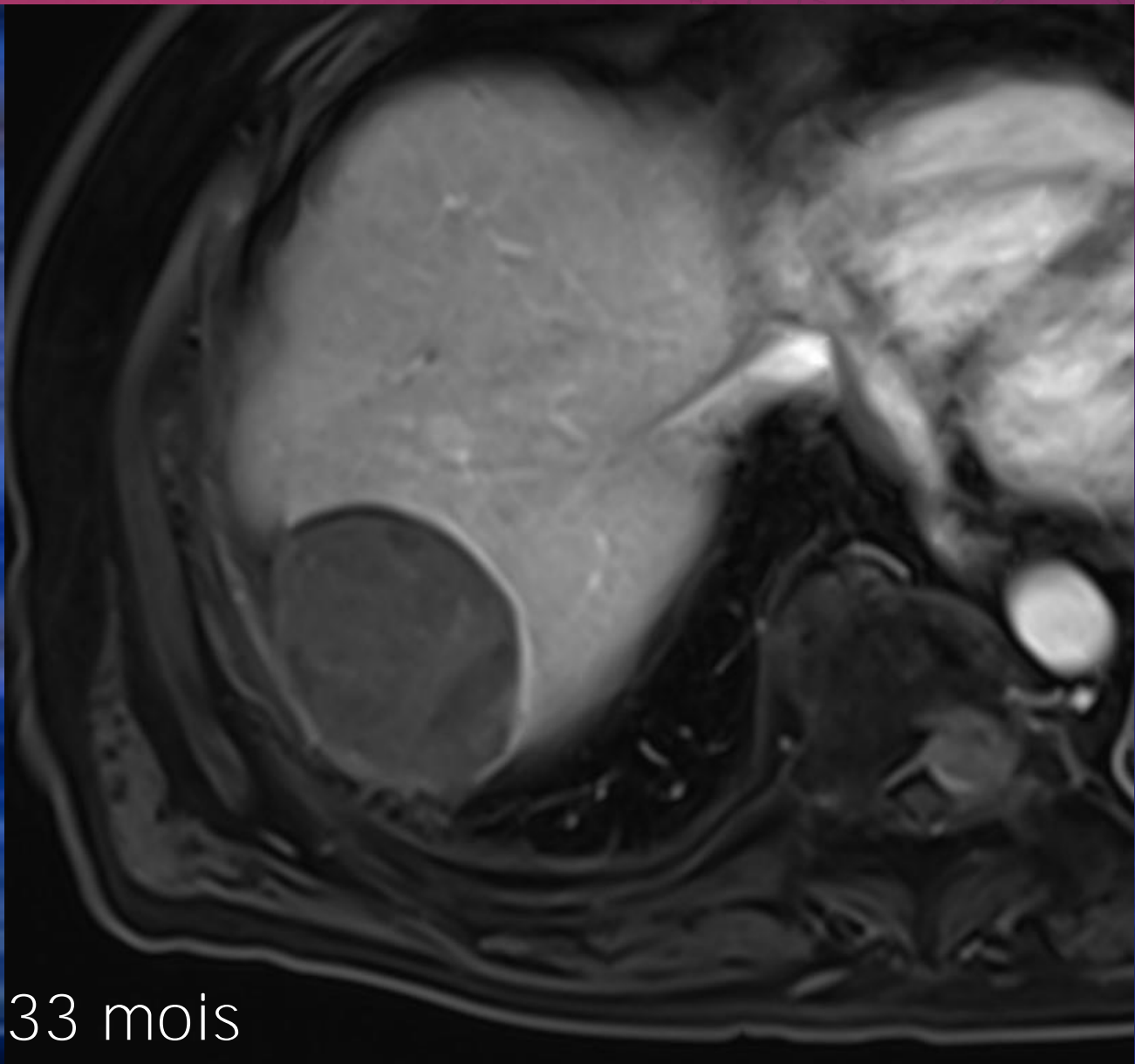
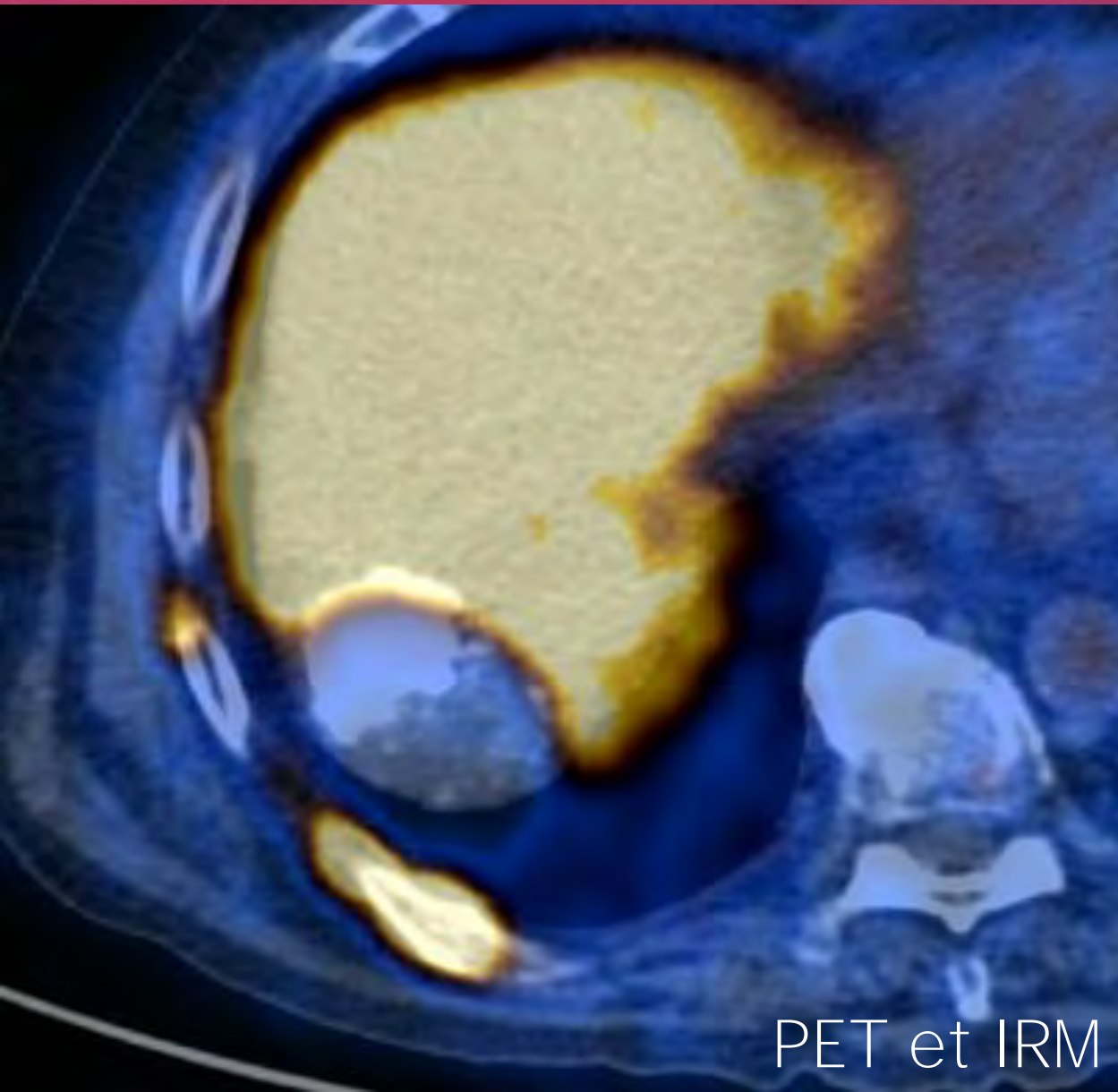
IRM 12.2020



TACE



TACE



PET et IRM 33 mois

traitement combiné

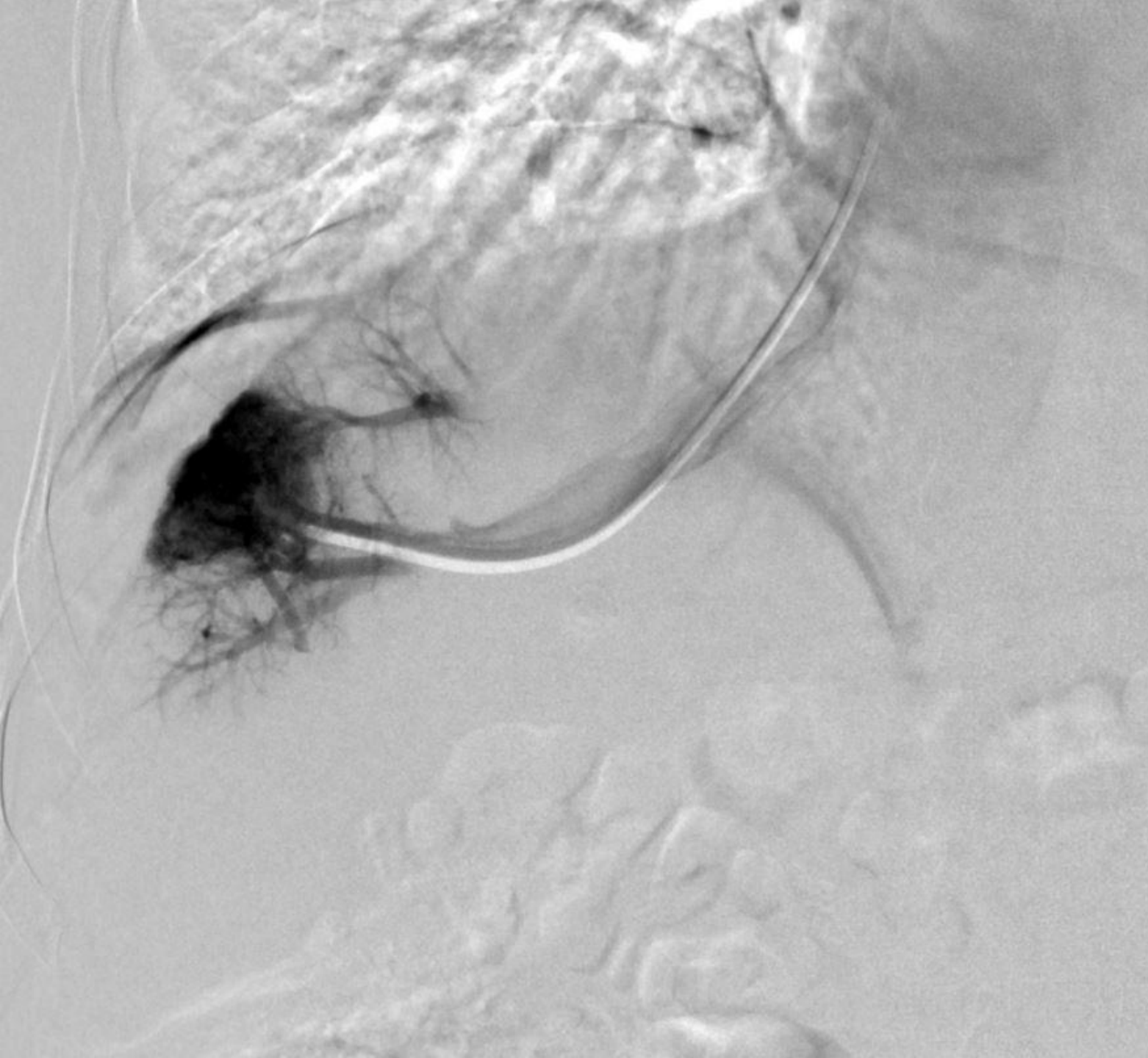
TACE+MWA

CYTOTOXIC

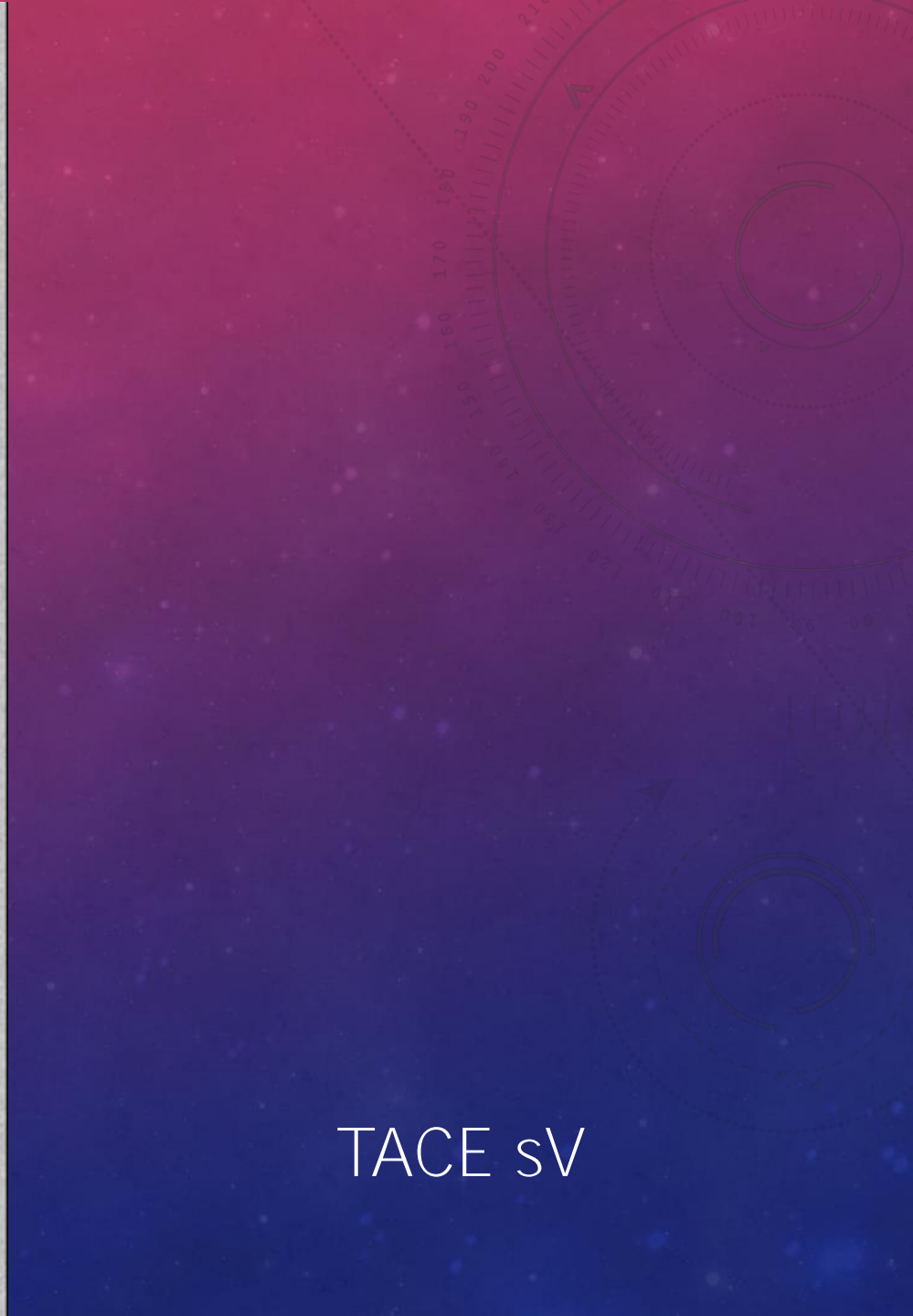
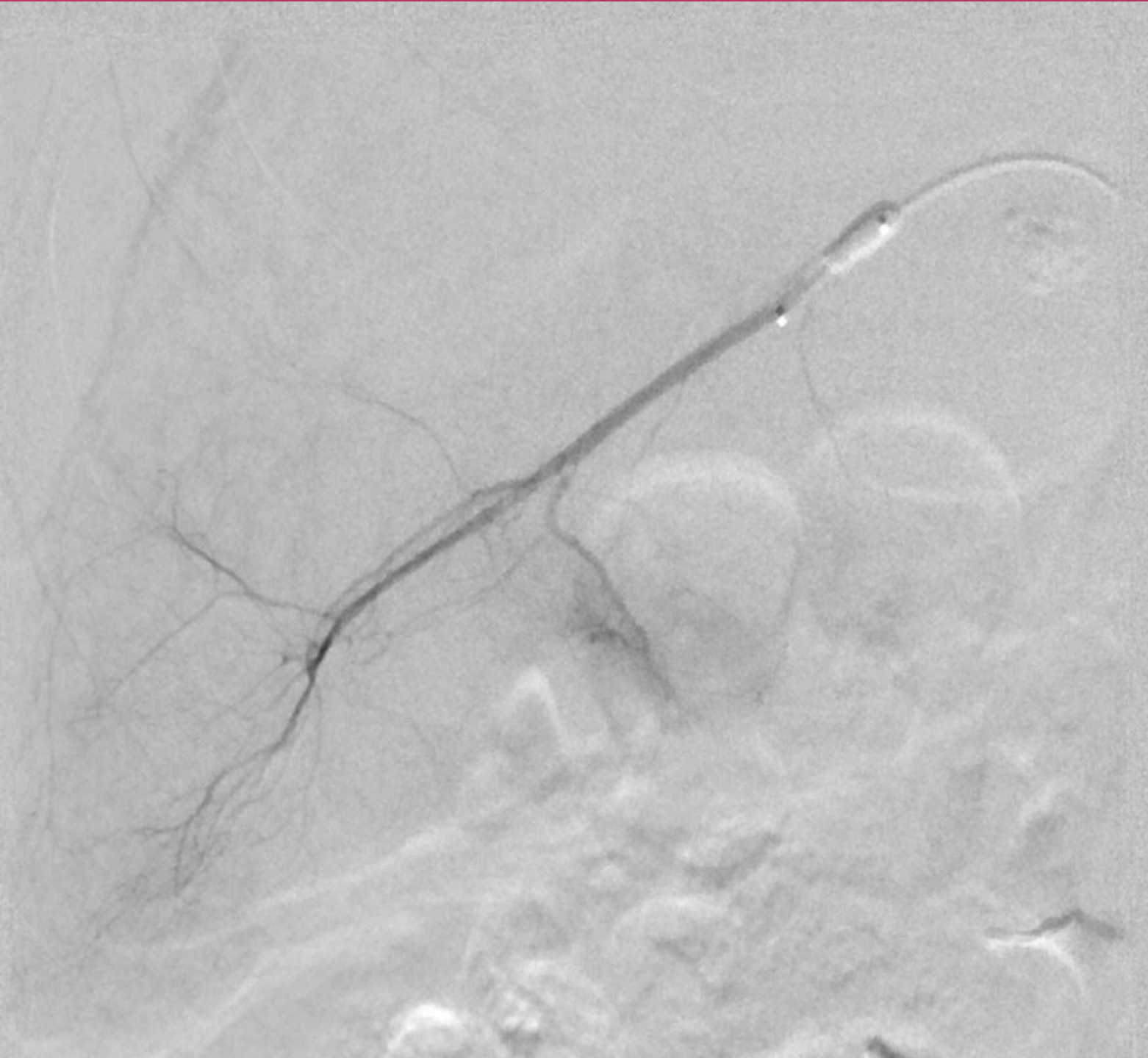




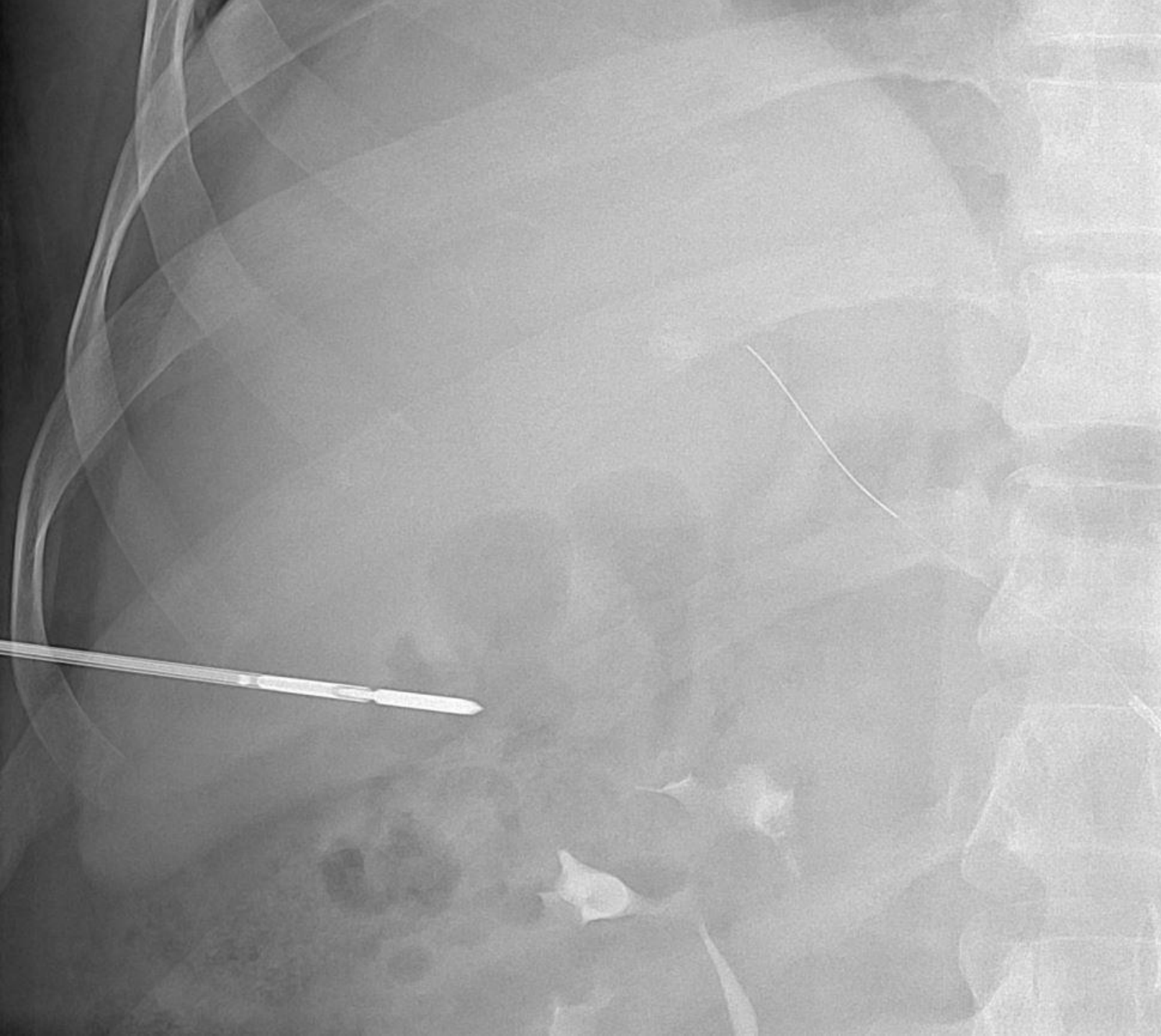
M, 43 ans
Hépatite virale B
Child-Pugh A5
CHC 21mm V



Gradient porto systémique
19 mmHg



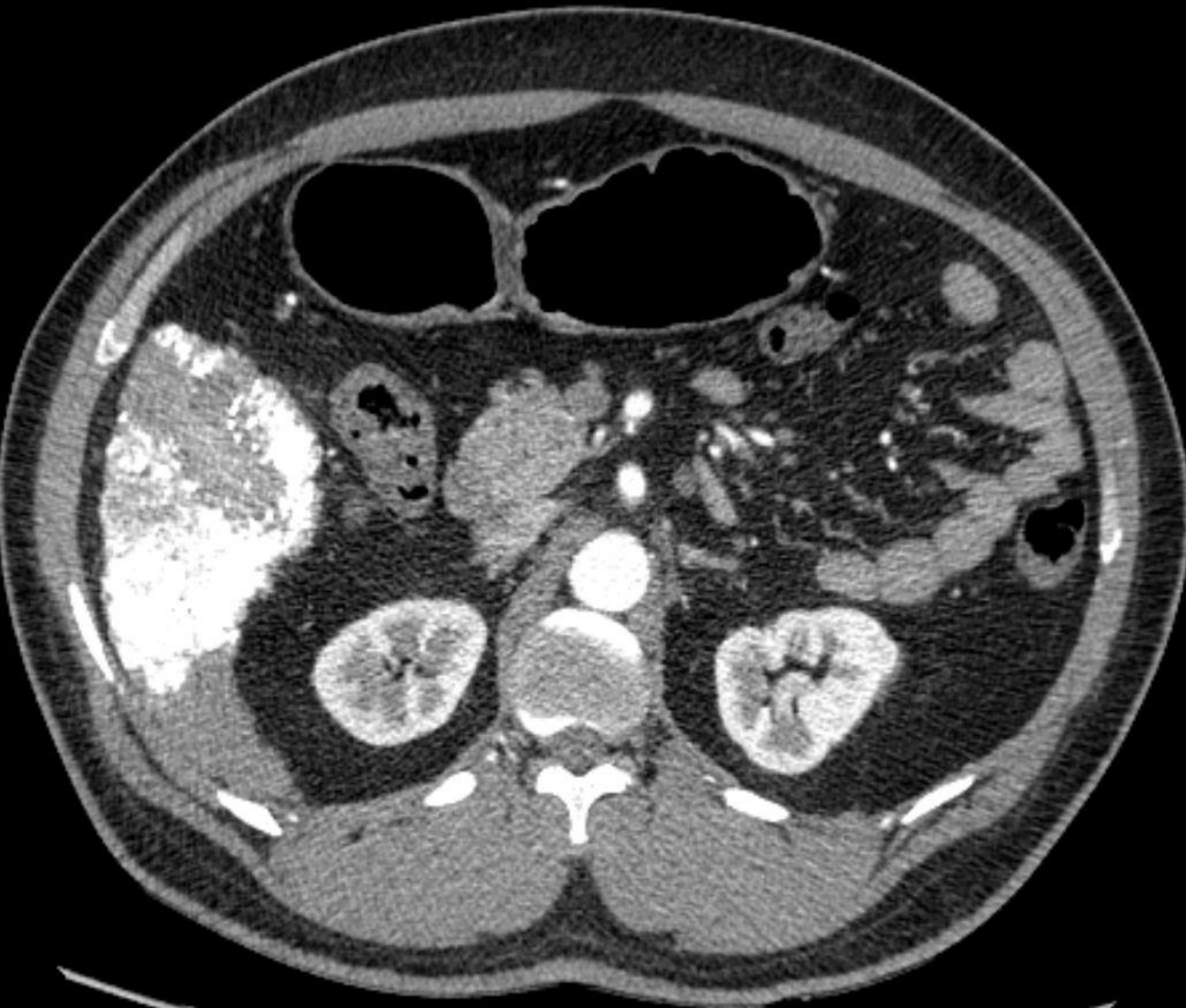
TACE sV



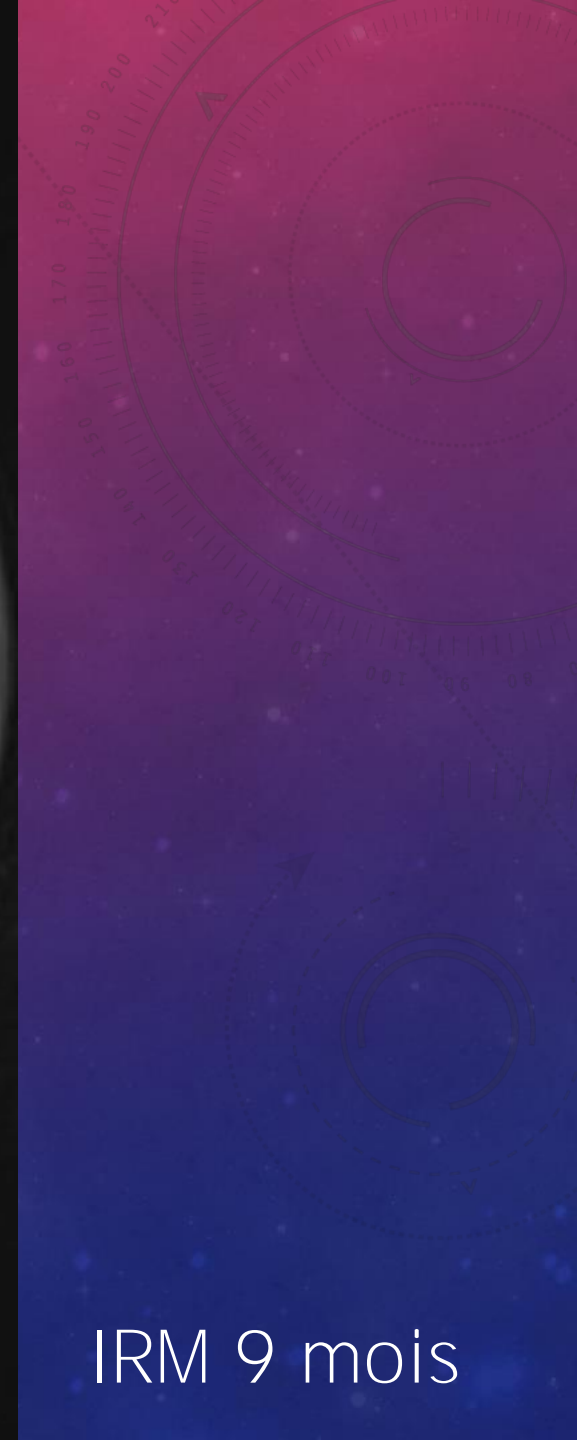
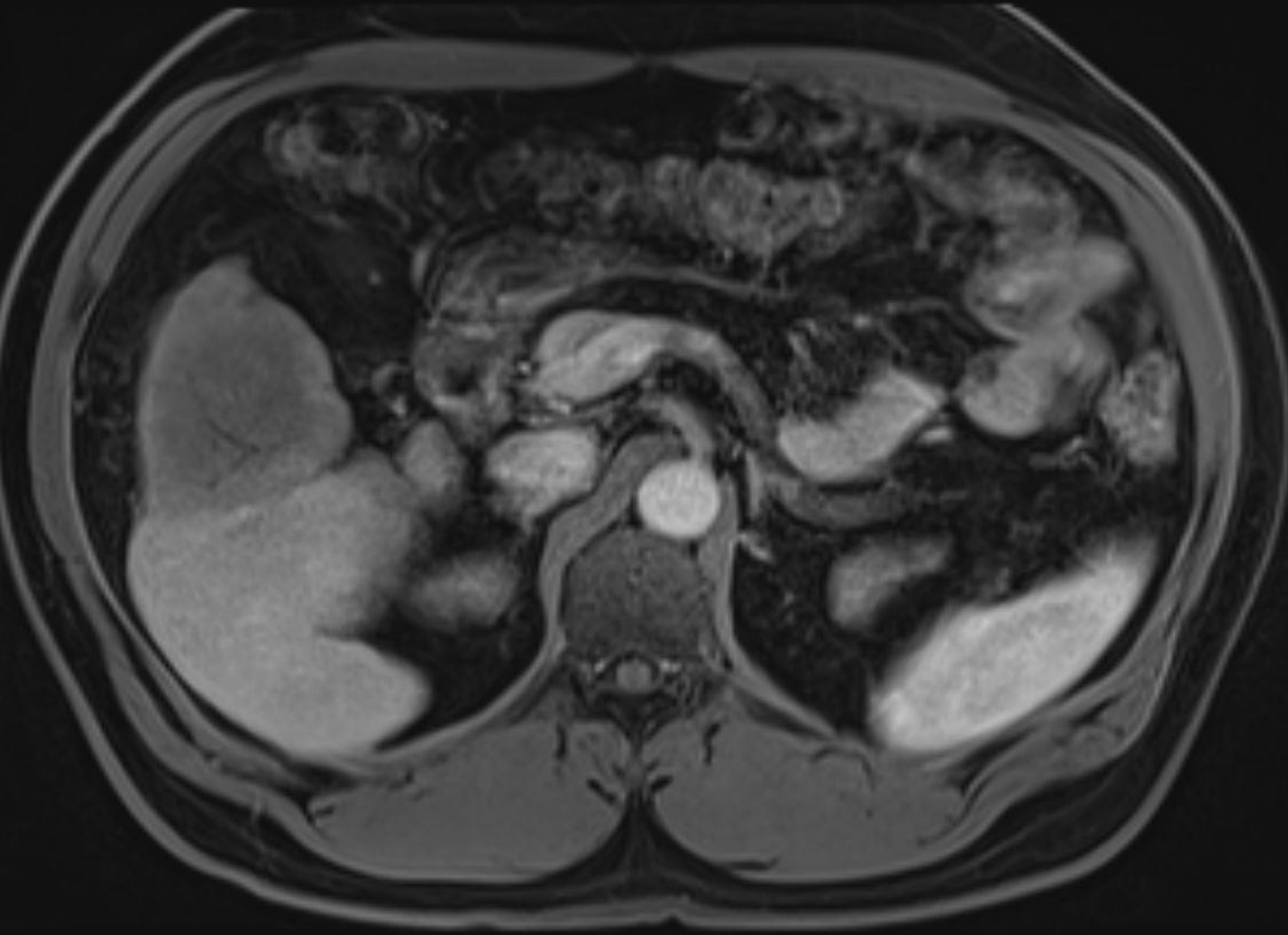
MWA sV
60 W, 15 min



TACE + la veine porte
«segmentectomie»



CT 24h



IRM 9 mois



SIRT



THERASPHERE™
Y-90 Glass Microspheres

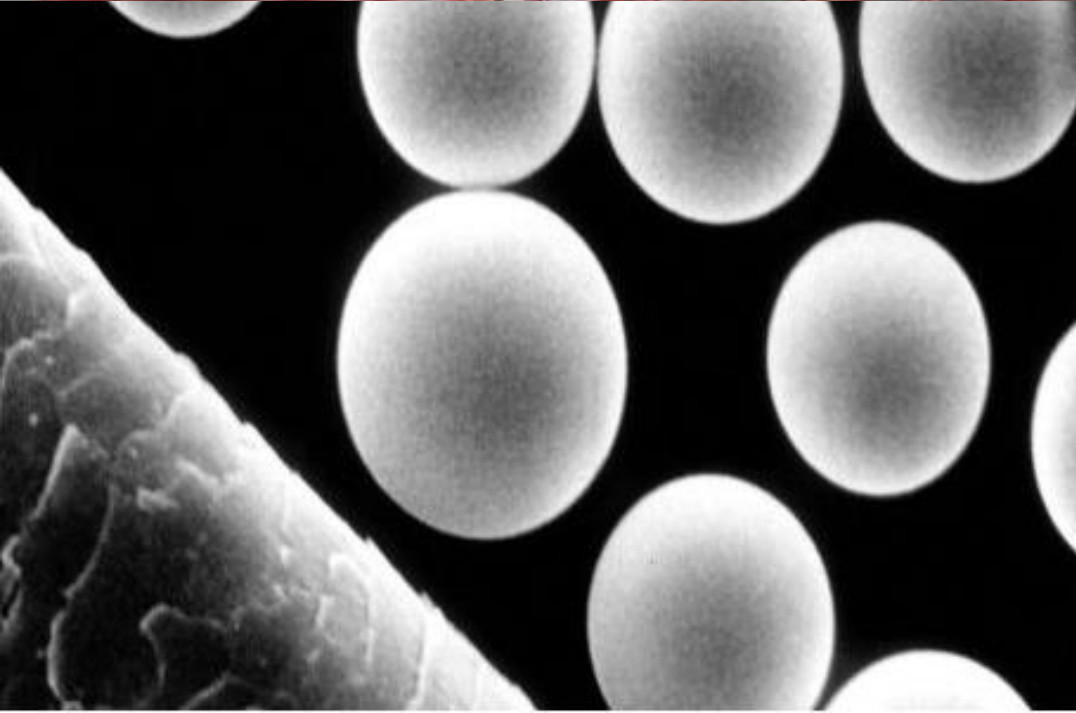
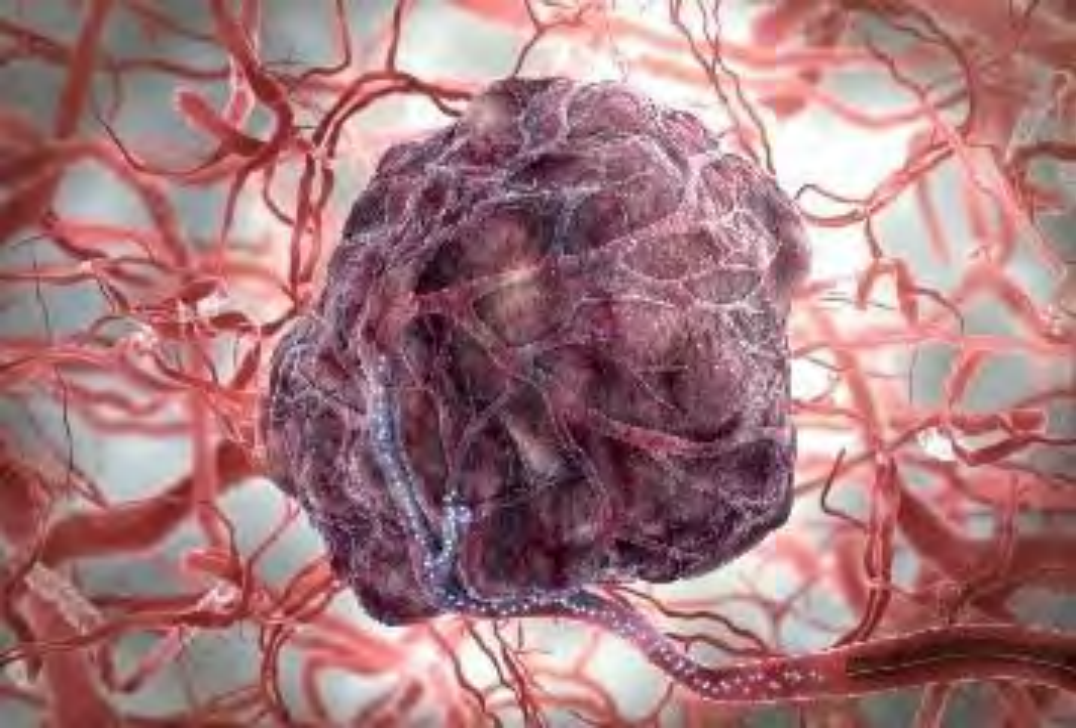
radiothérapie interne sélective (depuis 01.2023)



Dr Vincent SOUBEYRAN
médecin adjoint,
médecine nucléaire

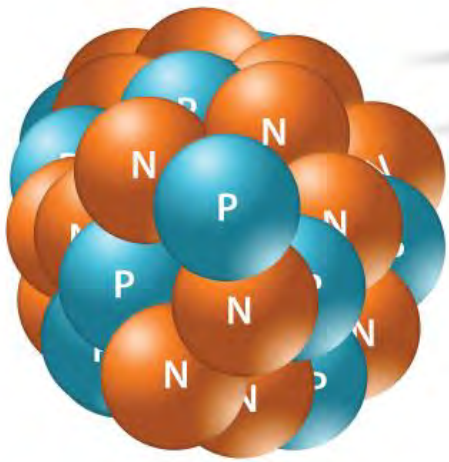


Dre Yolande PETEGNIEF
physicienne médicale



SIRT:

microsphères de verre
diamètre 15-35 μm
0.025 mm



THERASPHERE™
Y-90 Glass Microspheres

Boston Scientific
Advancing science for life™

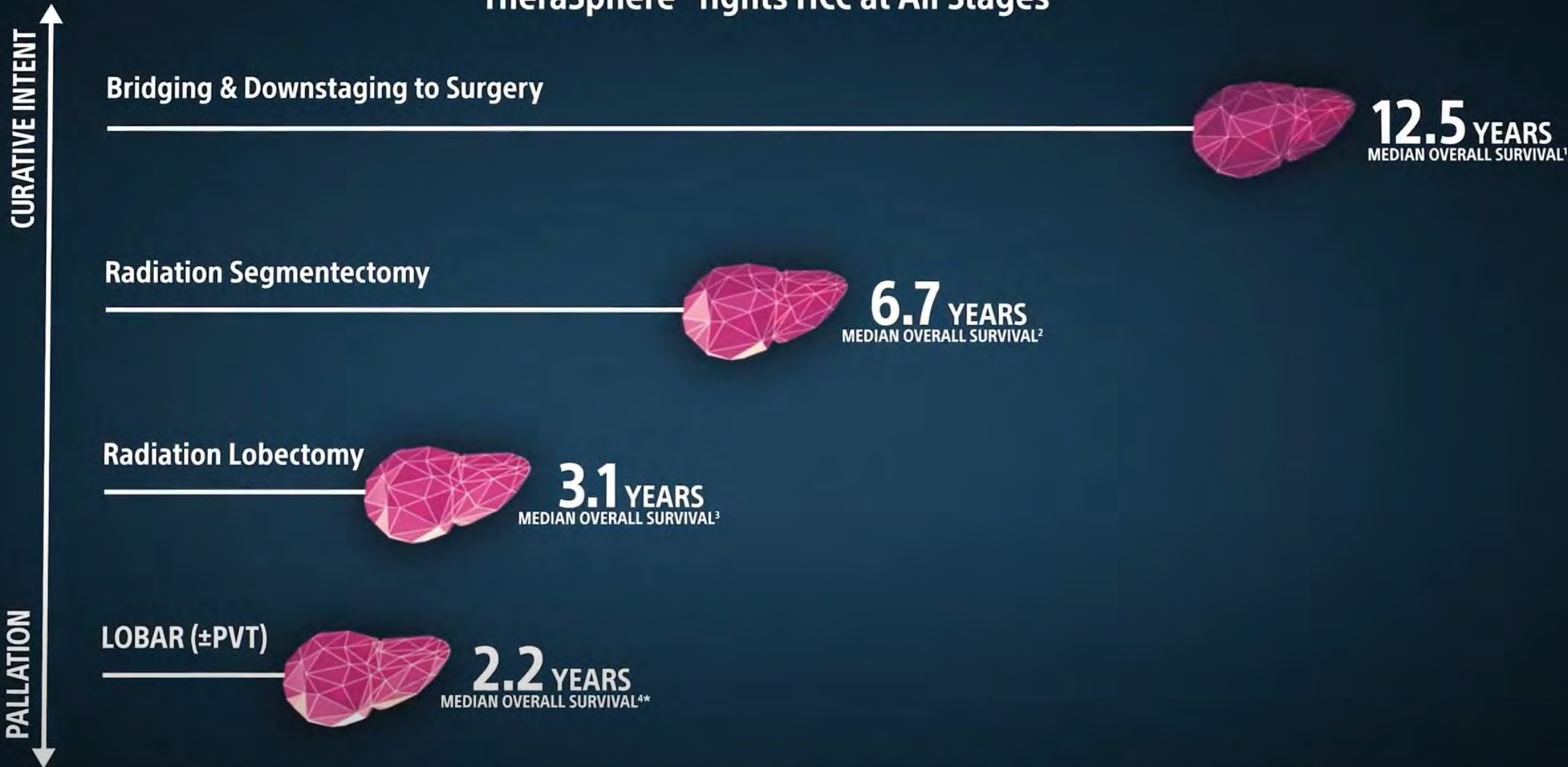
SIRT:



Delivers 1.2-8 million spheres per infusion

Yttrium-90 émission Bêta
Énergie 0,9367 MeV
Pénétration tissulaire 2,5 mm
(max. 11 mm)

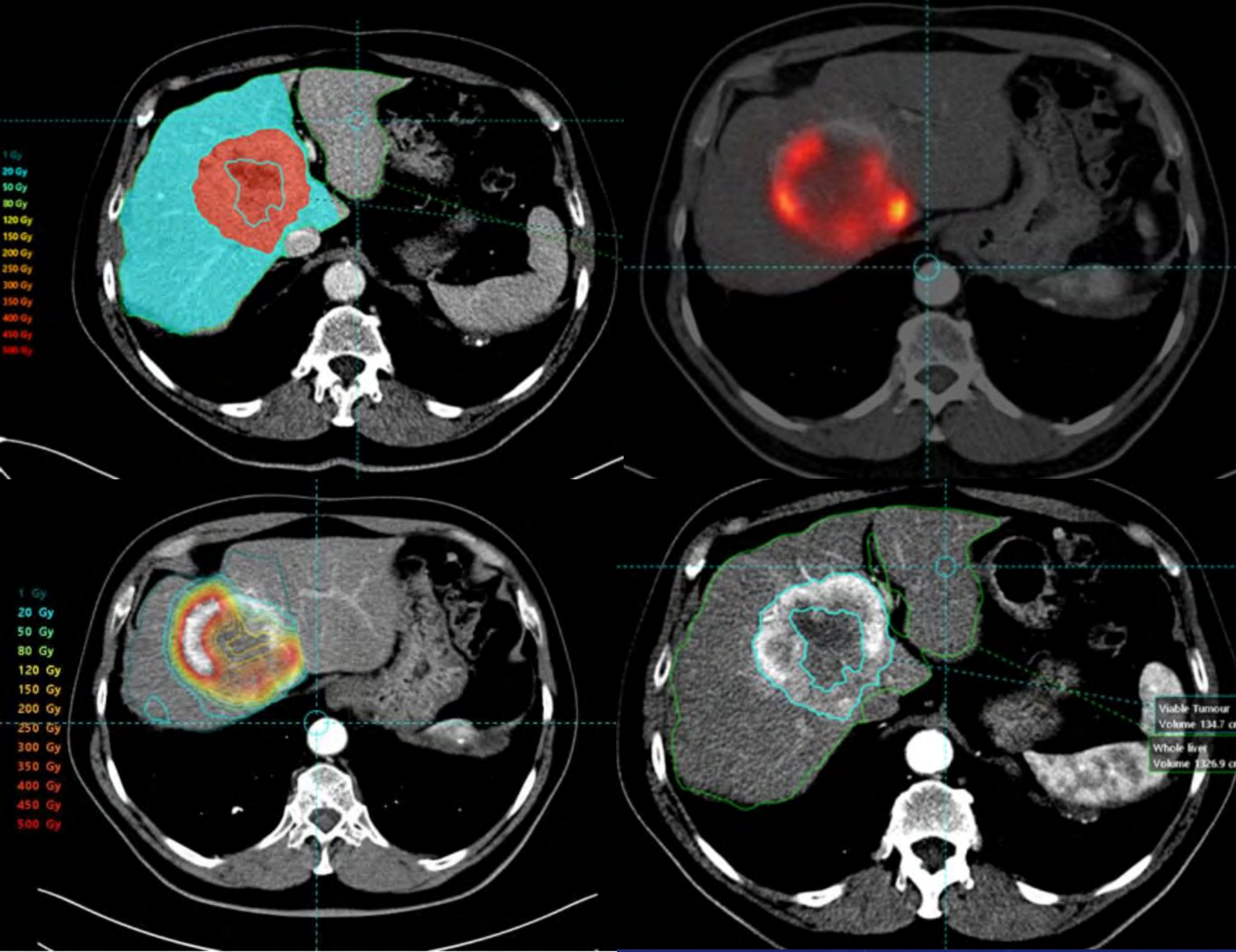
TheraSphere™ fights HCC at All Stages



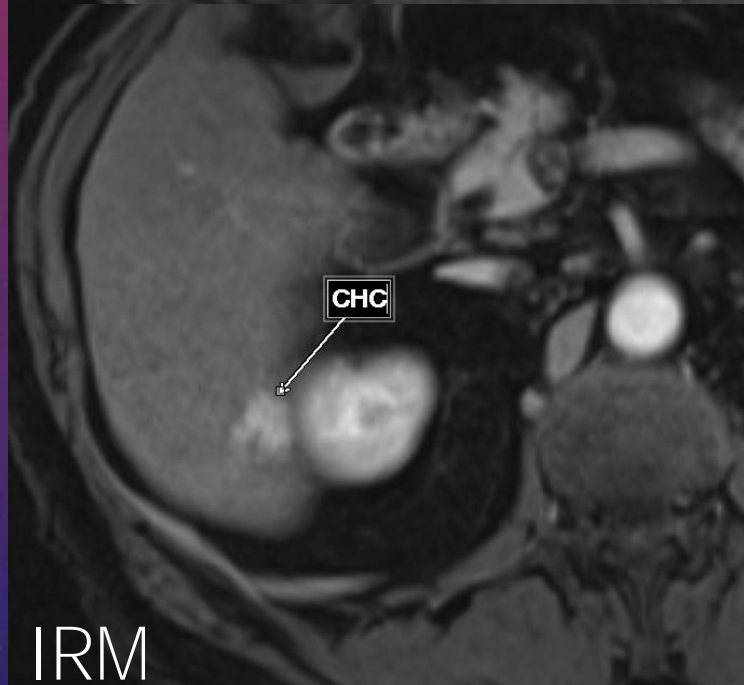
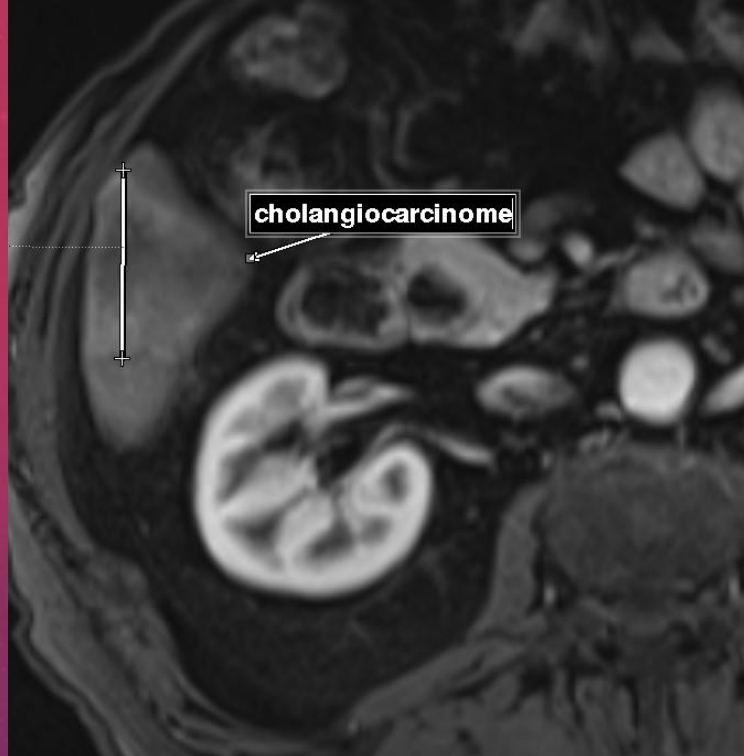
¹Bridging and Downstaging: Gabr, A., Kulik, L., Mouli, S., Riaz, A., Ali, R., Desai, K., Mora, R.A., Ganger, D., Maddur, H., Flamm, S., Boike, J., Moore, C., Thornburg, B., Alasadi, A., Baker, T., Borja-Cacho, D., Katariya, N., Ladner, D.P., Caicedo, J.C., Lewandowski, R.J. and Salem, R. (2020), Liver Transplantation Following Yttrium-90 Radioembolization: 15-year Experience in 207-Patient Cohort. Hepatology. Accepted Author Manuscript. doi:10.1002/hep.31318 >=30% hepatic reserve. ²Rad Seg: Lewandowski RJ, Gabr A, Abouchaleh N et al. Radiation segmentectomy: potential curative therapy for early hepatocellular carcinoma. Radiology. 2018; 287(3): 1050-1058. ³Rad Lob: Gaba RC et al. Ann Surg Oncol 2009;16:1587-96. ⁴PVT + Lobar : Garin et al, J Clin Oncol 38, 2020 (suppl 4; abstr 516) *Utilized personalized dosimetry method with >205 Gy to the inde.



THERASPHERE™
Y-90 Glass Microspheres

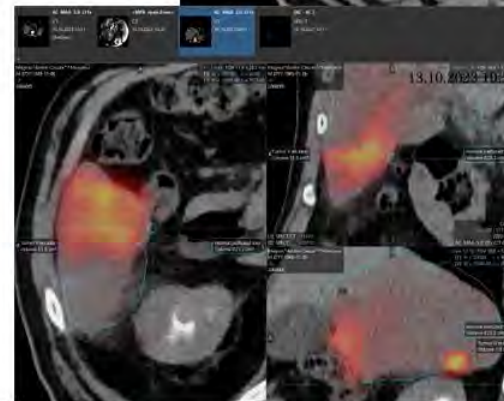
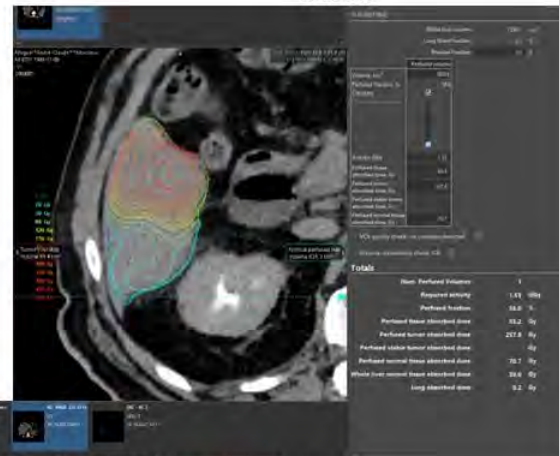


Simplicit^{90Y}



IRM

Item	Dosimetry
Name	Magnin^André-Claude^^Monsieur^
Patient ID	2068065
Age	73 Y
Date of Birth	06.11.1949
Acquisition Date	13.10.2023

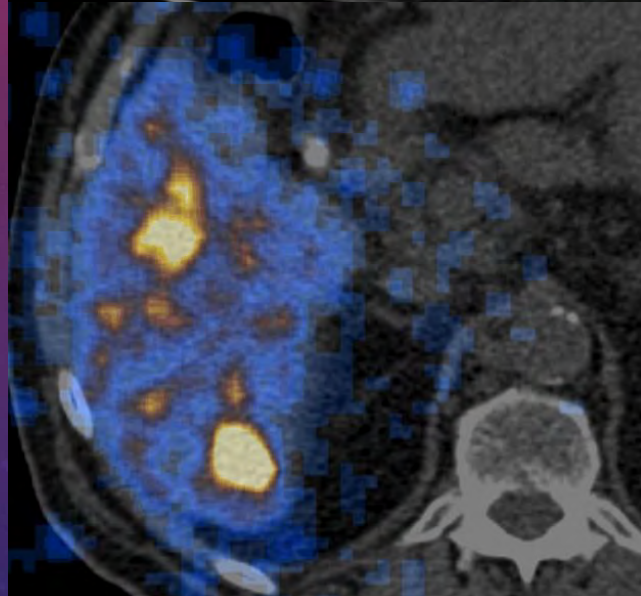
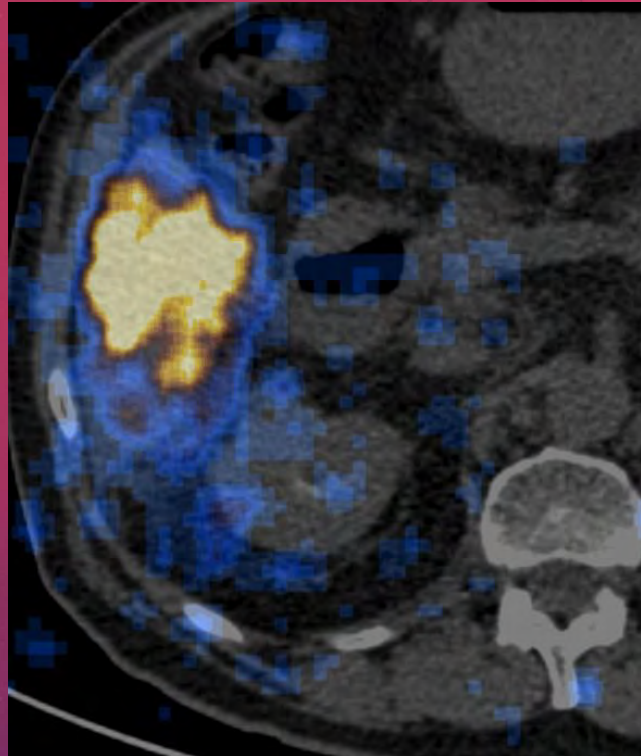

 Reserve hépatique 43%
 Shunt pulmonaire 0,3%

 Contraintes de dose :
 Foie total normal (1500cc) 40 Gy
 Foie normal perfusé (823cc) 70 Gy

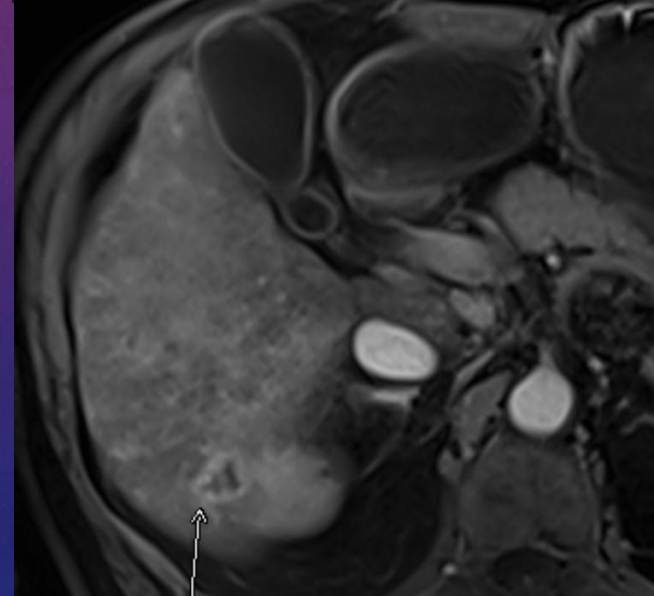
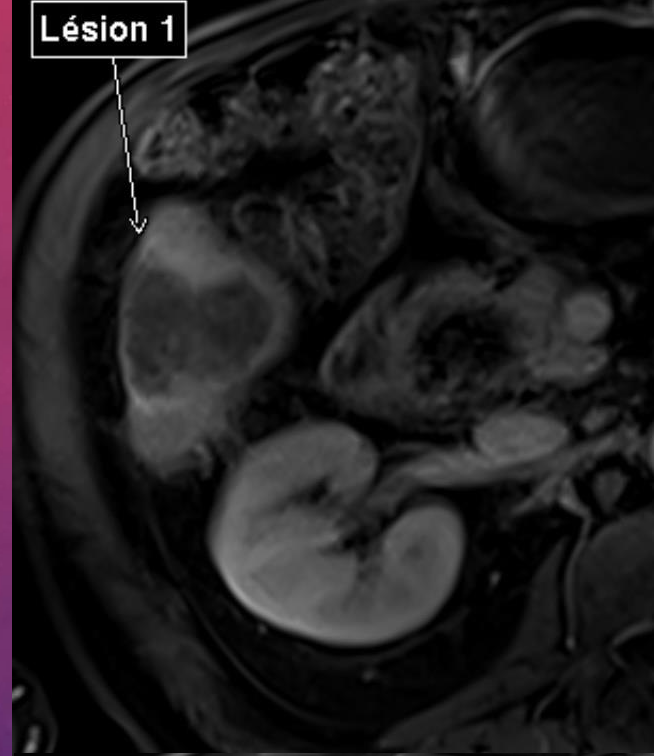
 Tumeur V (52cc) Dose>205 Gy 66% du volume
 Tumeur VI (2cc sur CBCT avec marges 1cm) Dose>205 Gy 59% du volume

Num. Perfused Volumes	Required activity, GBq	Perfused fraction, %	Perfused tissue absorbed dose, Gy	Perfused tumor absorbed dose, Gy	Perfused viable tumor absorbed dose, Gy	Perfused normal tissue absorbed dose, Gy	Whole liver normal tissue absorbed dose, Gy	Lung absorbed dose, Gy
1	1.55	56.8	83.2	257.8		70.7	39.0	0.2

 VOI quality check: no overlaps detected
 Volume consistency check: OK



dosimétrie Y-90



Lésion 2 IRM 3 mois

RI propose possibilité de traitement curatif,
ainsi que downstaging et «pont» pour transplantation.



