

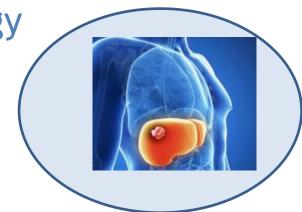
Hepatocellular carcinoma **EASL 2024**





Myriam Ayari

AHU in Gastroenterology **FSI Hospital**



Introduction



弘

M Schwartz

J Heimbach

RK Kelley

T Greten

T Simon

A Singal

L Kulik

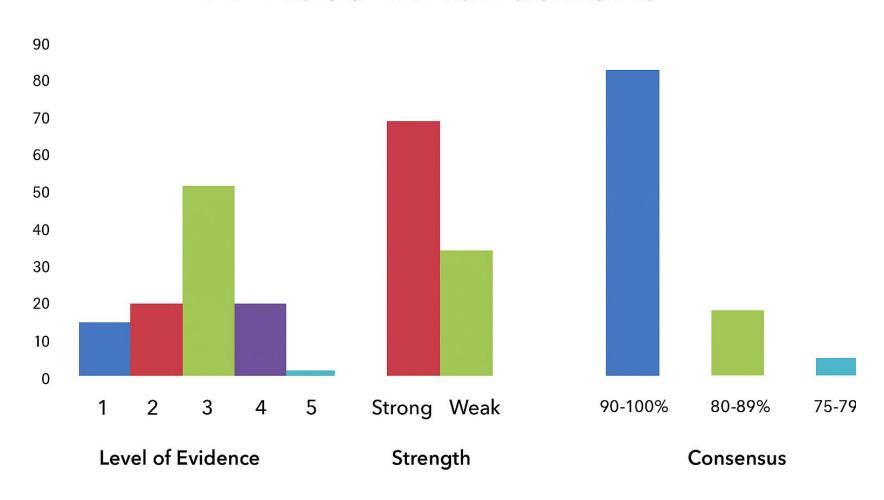


Delphi Panel



Introduction

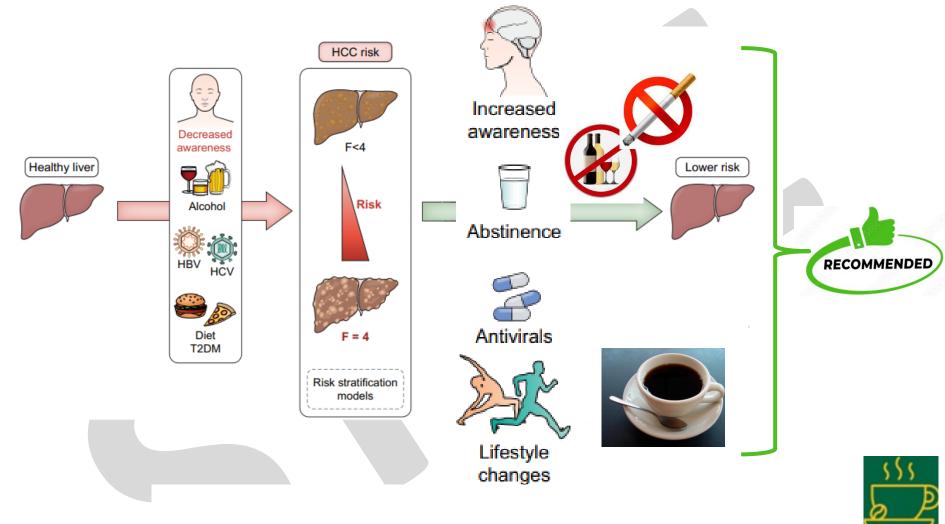
77 Recommendations



Section

- Prevention and screening
- Diagnosis and staging
- Surgery
- Locoregional therapies
- Systemic treatment

Prevention





Coffee consumption may be recommended to reduce the risk of HCC (LoE 3, weak recommendation, consensus).

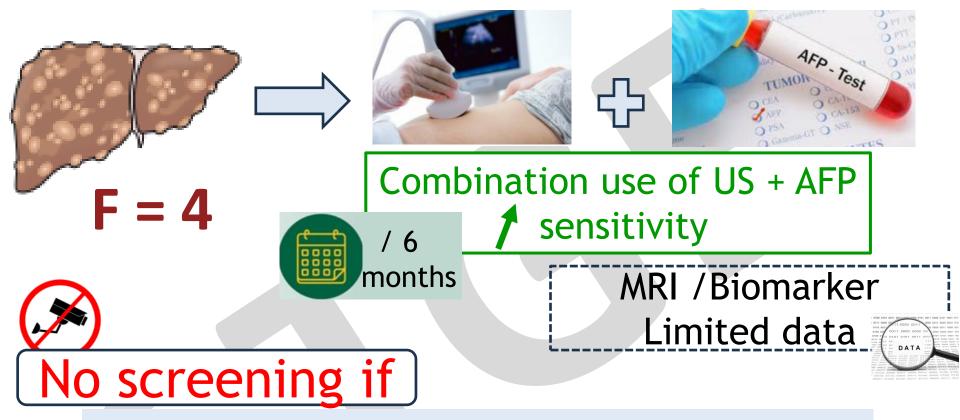
Prevention

Statin, anti-inflammatory drugs or metformin



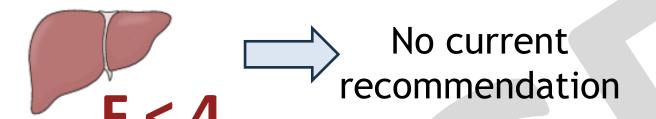
Owing to a lack of evidence, the use of <u>statins</u>, <u>aspirin</u> and <u>metformin</u> cannot currently be recommended to reduce the risk of HCC development (LoE 3, weak recommendation, strong consensus).

Screening



 Patients with cirrhosis should be offered surveillance for HCC unless they have a relatively high risk of death from non-HCC causes, or they could not be offered a curativeintent treatment for HCC (e.g., patients with Child-Pugh class C cirrhosis ineligible for liver transplantation) (LoE 2, strong recommendation, strong consensus).

Screening

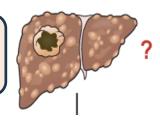




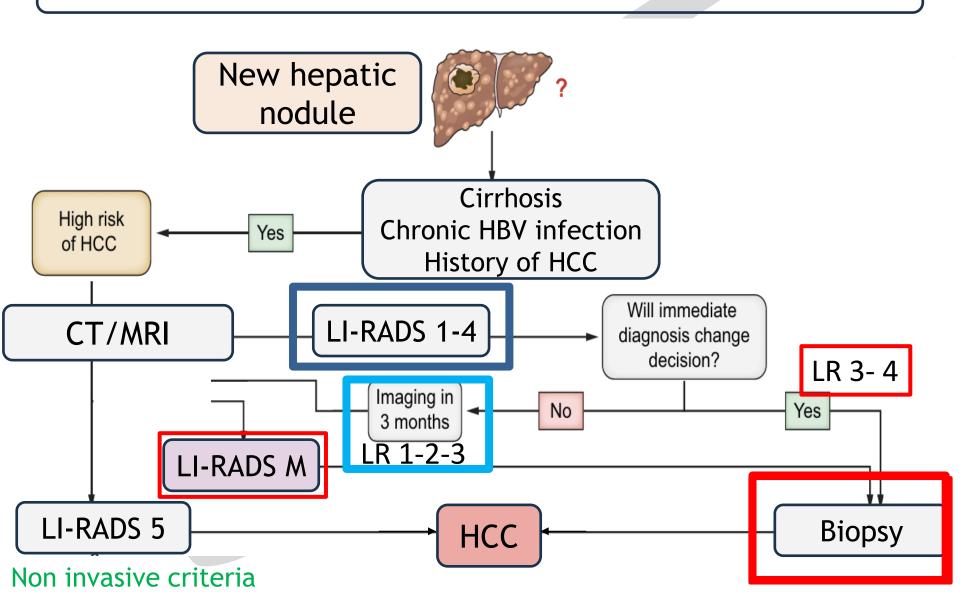
Patients with chronic liver disease and advanced fibrosis without cirrhosis have a higher risk of HCC than the general population, but HCC surveillance cannot currently be recommended in this group owing to insufficient evidence (LoE 3, weak recommendation, strong consensus).

LI-RADS should be used to favour standardisation

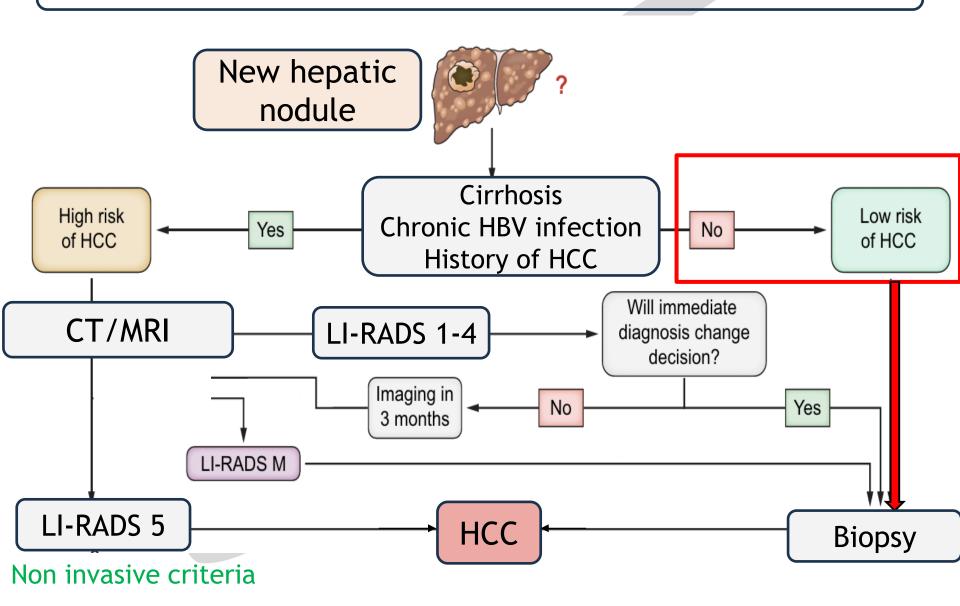
New hepatic nodule



LI-RADS should be used to favour standardisation



LI-RADS should be used to favour standardisation



 The non-invasive criteria should only be applied to patients with cirrhosis, chronic HBV infection or a history of HCC. In other patients, the diagnosis of HCC should be confirmed by biopsy (LoE 1, strong recommendation, consensus).

Non-invasive criteria non applicable if

- Age < 18 years
- Cirrhosis due to congenital fibrosis
- Vascular disorders budd-chiari syndrome, portal vein thrombosis
- Diffuse NRH



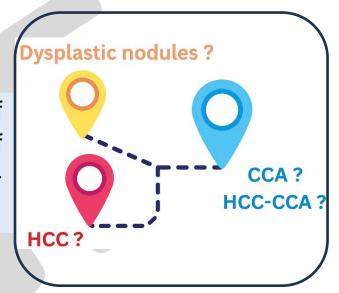


Bx = tumoral + non tumoral parenchyma

 In patients undergoing tumour biopsy for the diagnosis of HCC, it is suggested to simultaneously obtain a sample of the non-tumoural liver parenchyma to facilitate the diagnosis (LoE 3, weak recommendation, consensus).

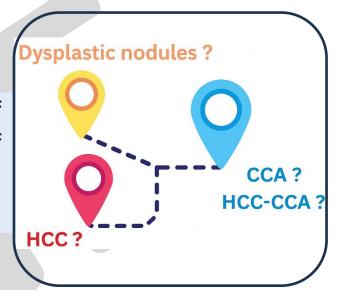
Histological prognostic features

- Differentiation grade
- Vascular, neural oy lymphatic infiltration
- Macrotrabecular-massive



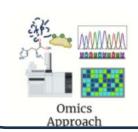


• In patients undergoing tumour biopsy for the diagnosis of HCC, it is suggested to simultaneously obtain a sample of the non-tumoural liver parenchyma to facilitate the diagnosis (LoE 3, weak recommendation, consensus).



• Until therapeutic decisions can be reliably informed by molecular analysis of tumours, routine molecular analysis is not recommended (LoE 3, strong recommendation, strong consensus).

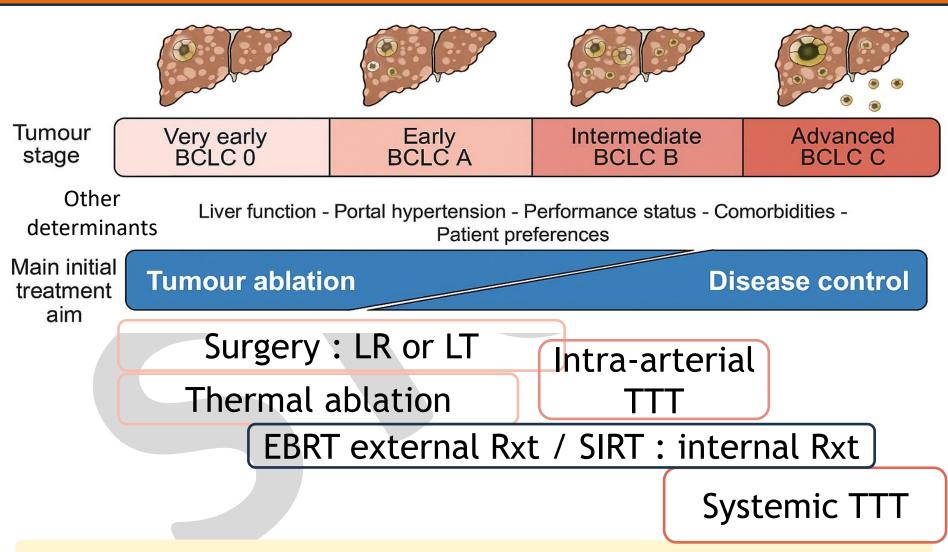
No evidence yet supports systematic molecular analysis





Work up and staging

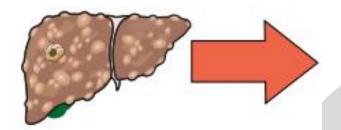
Main determinants for clinical decisions making



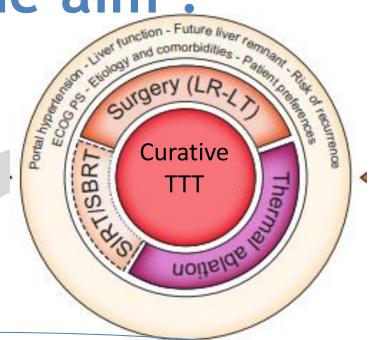
Multidisciplinary assessment and clinical decision making

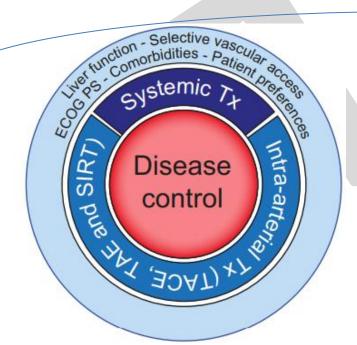
What is the aim?

Small burden of disease

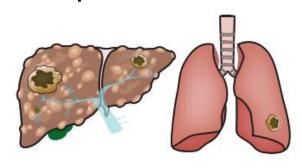


BCLC Stage 0-A-B



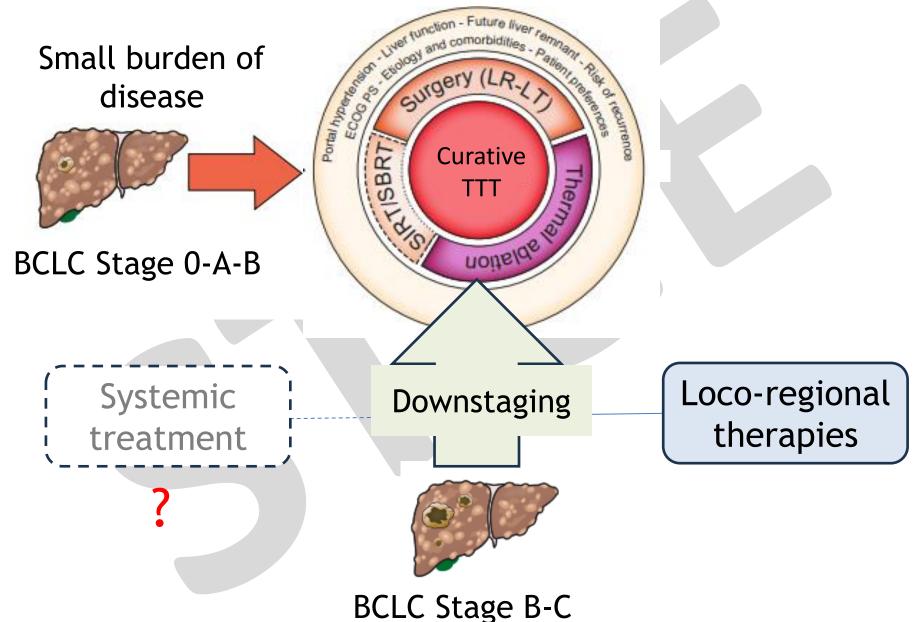


Vascular invasion or extrahepatic disease



BCLC Stage B-C

The aim may change!



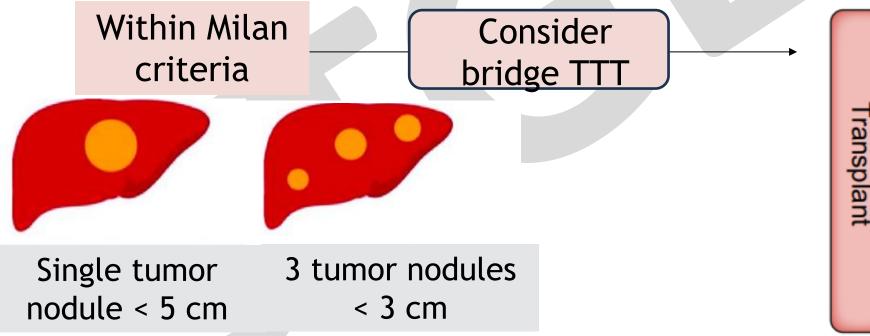
Liver transplantation



5-year survival > 70% and > 60% at 10 years



- No vascular invasion, no metastasis
- Transplant criteria adopted by each center



Transplant

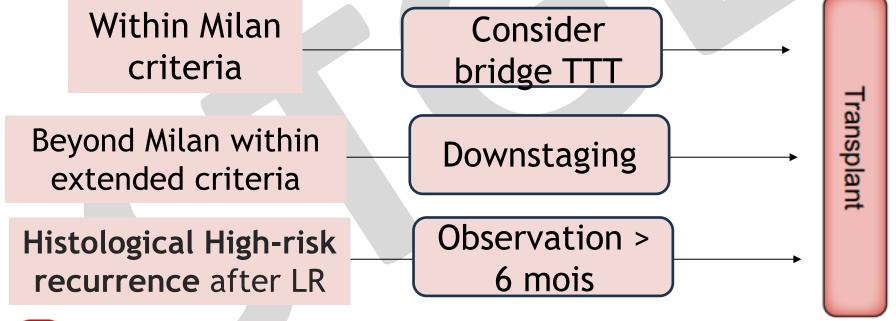
Liver transplantation



5-year survival > 70% and > 60% at 10 years



- No vascular invasion, no metastases
- Transplant criteria adopted by each center





AFP level > 1000 ng/ml = Absolute contraindication to LT



Liver resection



Preoperative assessment for LR ++



Reference option in non-cirrhotic If single HCC even large



- √ Unique HCC > 2 cm < 5 cm
 </p>
- √ < 3 nodules 3 < cm same segment
 </p>
 - ✓ Child A no CSPH- sufficient LV

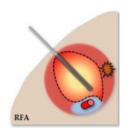
Child B- CSPH possible if minor resection



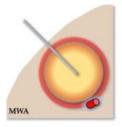
contraindicated if major LR

Advanced age **not an absolute contraindication**

HCC < 2cm: Resection or thermal ablation



Thermal ablation





- ✓ Tumor size < 3 to 5 cm
- ✓ Accessible via US or CT scan
- ✓ Away from vascular (heat sink) or bilary structures
 - ✓ Preserved liver function

No one thermal ablation technique
 (radiofrequency or microwave) is recommended
 over the others



Intra-arterial therapy

-> First line palliative TTT of intermediate stage

Selection:



- ✓ Multinodular
 - ✓ Large size
- ✓ Preserved liver function
 - ✓ Preserved portal flow
 - ✓ No metastasis

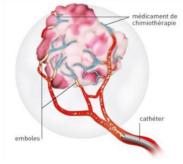
Conventional TACE (cTACE)

Drug-eluting beads TACE (DEB-TACE)

Trans-arterial embolisation (TAE)



Intra-arterial therapy



cTACE or DEB TACE ??

cTACE, DEB-TACE should be considered equivalent

TACE or Trans arterial embolization (TAE)?

TAE acceptable alternative to TACE

When to stop TACE?

No response after up to 2 consecutive TACE According to mRecist criteria



Intra-arterial therapy:SIRT

Selective Internal Radiation Therapy= Radioembolization

Selection:



- ✓ Single within MC or larger HCC
 - ✓ Preserved liver function
 - ✓ Thrombosis (VP1-3)
- Contredicated if troncular portal thrombosis (VP4)

Alternative to ablation

Alternative to TACE

Single tumours unsuitable for LR or LT or TACE significant risk of recurrence

Bridge to LT or LR

400 Mills

EBRT

External beam radiation therapy

Selection:

- ✓ Single ou pauci-nodular HCC 3 to 5 cm
 - ✓ Preserved liver function
 - ✓ Unsuitable for resection or ablation
 - ✓ Good alternative for TACE High risk complications from TACE
 - ✓ Recurrence after ablation

Not an alternative to systemic TT



Systemic treatment

Diffuse HCC - PVT- Extra hepatic spread- PS 0-1 Preserved liver function CHILD A

1st Line

Or Durva -Treme

If no feasible:

Atezo-Beva

Sorafenib / Lenvatinib (TKI)

2nd Line

Tyrosine kinase inhibitors (TKI)

3rd Line

•

The choice should not be influenced by aetiology



Systemic treatment ICI-based combinations



Should patients with mildly decompensated cirrhosis be offered systemic therapy?

 Patients with decompensated cirrhosis should not be routinely treated with systemic therapy outside a prospective clinical trial.

Careful selection in Child-Pugh 7-8 patients





Systemic treatment ICI-based combinations



How to assess?

DECICE4. 4	Response	Target lesions	Non-target	New lesions
RECIST v1.1	CR	Disappearance of all target lesions	Disappearance of all non-target lesions	No
		Lymph node axis < 10 mm	Normalization of tumor marker levels	Partial Response
	PR	30% ≥ decrease in SLD from baseline (≥ 4 weeks)	No progression	No
	PD	≥ 20% increase in SLD from Nadir with an absolute SoD increase ≥ 5 mm	Unequivocally progression in lesion size	Yes, appearance of new unequivocally metastatic lesions
	SD	Neither PR nor PD with the Nadir as reference point	Persistence of one or more non-target lesions and/or tumor markers > normal	No



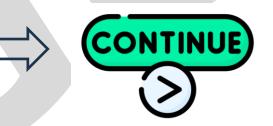
Systemic treatment ICI-based combinations



Until when?

Complete / partial response

Stable disease



Progressive disease



Switch to 2nd Line

If ongoing clinical benefit

Conclusion

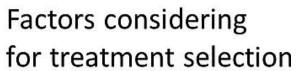


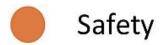
Oncologist Hepatologist Pathologist









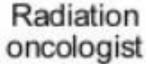




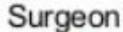
Response

Real-World data

HRQoL









Radiologist

