

Hepatocellular Carcinoma

Prevention, surveillance, diagnosis, staging, and treatment selection (resection, transplant, ablation, transarterial, systemic therapy) for HCC.

STRENGTH			Strong	Weak
1 Prevention & Chemoprevention				
GS	STATEMENT	STR.		
1	Public health policy/interventions to address HCC mortality burden	Strong		
2	HBV vaccination in all newborns and unvaccinated high-risk adults	Strong		
3	Antivirals per AASLD HBV/HCV criteria – suppression/eradication decreases HCC risk	Strong		
4	Counsel healthy weight, balanced diet, avoid tobacco/alcohol, control metabolic syndrome components	Strong		
5	Coffee consumption may be recommended (no established specific dose)	Weak		
6	No routine statins/aspirin/metformin solely for HCC chemoprevention	Weak		
2 Surveillance, Recall & Diagnostic Trigger				
GS	STATEMENT	STR.		
7	Surveil high-risk patients who are HCC-treatment candidates; not CTP-C unless transplant candidate; all LT-listed get semiannual surveillance; skip if life-limiting comorbidity	Strong		
8	No routine surveillance: HCV post-SVR, advanced fibrosis without cirrhosis	Weak		
9	No routine surveillance: NAFLD, advanced fibrosis without cirrhosis	Weak		
10	US + AFP semiannually; use adherence interventions (alerts/outreach) given underuse	Strong		
11	No routine CT/MRI or non-AFP biomarkers for surveillance; CE-MRI may help if US suboptimal	Weak		
12	Report US visualization quality; consider CE-MRI/CT if visualization limited	Strong		
13	<1 cm lesion: repeat US+AFP in 3–6 months; return to semiannual if stable ×2	Strong		
14	≥1 cm suspicious lesion → multiphasic CT/MRI	Strong		
15	AFP ≥20 ng/mL or rising AFP → multiphasic CT/MRI	Strong		
3 Diagnosis				
GS	STATEMENT	STR.		
16	At-risk cirrhosis/HBV: diagnose via noninvasive imaging (LI-RADS) and/or pathology; AFP alone/liquid biopsy insufficient	Strong		
17	No cirrhosis/no at-risk HBV: pathology required (imaging insufficiently accurate)	Strong		
18	Noninvasive diagnosis via dynamic CE-MRI or multiphasic CT	Strong		
19	LR-3: repeat imaging in 3–6 months	Weak		
20	LR-4: multidisciplinary discussion – repeat imaging ◊ months or immediate biopsy	Strong		
21	Consider biopsy for LR-4/LR-5 to confirm diagnosis/enable molecular analysis	Weak		
22	Biopsy required for LR-M (risk of mixed/non-HCC malignancy)	Strong		
4 Staging & Multidisciplinary Care				
GS	STATEMENT	STR.		
23	Stage with multiphase CT/MRI abdomen; noncontrast chest CT beyond BCLC 0; no routine PET/bone scan	Strong		
24	Document tumor burden, liver dysfunction, ECOG PS at initial evaluation	Strong		
25	Use the BCLC staging system	Strong		
26	Multidisciplinary tumor board review (alters imaging/histologic interpretation)	Strong		
27	Manage all HCC patients in a multidisciplinary care setting	Strong		
5 Surgical Resection & Adjuvant Therapy				
GS	STATEMENT	STR.		
28	Resection = treatment of choice for localized HCC without cirrhosis	Strong		
29	In cirrhosis: resection preferred if limited tumor burden, compensated cirrhosis without significant portal HTN, adequate FLR	Strong		
30	Minimally invasive resection (lap/robotic) may enhance recovery in selected patients	Weak		
31	Postop surveillance with CE CT/MRI every 3–6 months after resection	Strong		
32	Adjuvant ICI-based therapy if high recurrence risk after resection/ablation; no neoadjuvant systemic therapy outside trials	Strong		
6 Liver Transplantation				
GS	STATEMENT	STR.		
33	LT = treatment of choice for transplant-eligible early-stage HCC with significant portal HTN/decompensated cirrhosis, or Milan-recurrence after resection	Strong		
34	Pre-transplant locoregional bridging therapy reduces waitlist dropout if adequate hepatic reserve; no preferred modality; no routine systemic bridging	Strong		
35	Decompensated cirrhosis + T1 HCC, LT-eligible: imaging q3mo until MELD exception met before LRT; immediate LRT if AFP markedly elevated or not LT-eligible otherwise	Weak		
36	Downstage to within Milan (UNOS criteria) after 3–6 month observation → consider LT; AFP >1000 must downstage to <500	Strong		
37	Post-transplant recurrence surveillance: multiphasic CT/MRI + chest CT; optimal timing uncertain	Strong		
7 Local Ablative & Radioembolization Therapy				
GS	STATEMENT	STR.		
38	Solitary tumors ≤5 cm: curative-intent local ablation if ineligible/decline surgery	Strong		
39	Thermal ablation (RFA/MWA) = treatment of choice for early-stage HCC ≤3 cm ineligible/declining surgery	Strong		
40	Radioembolization (radiation segmentectomy) or EBRT as alternatives for BCLC A not candidates for resection (incl. >3 cm)	Strong		
8 Transarterial Therapy – BCLC Stage B				
GS	STATEMENT	STR.		
41	Transarterial chemoembolization (TACE) for BCLC Stage B	Strong		
42	Radioembolization as alternative to TACE for BCLC Stage B	Strong		
43	Selective/segmental (not lobar) transarterial therapy preferred – lower hepatic dysfunction risk	Strong		
44	No combination of systemic + transarterial therapy for BCLC B outside trials	Strong		
45	Systemic therapy for intermediate HCC unsuitable/refractory to locoregional therapy	Strong		
9 Systemic Therapy & Advance Care Planning				
GS	STATEMENT	STR.		
46	Preserved liver function (CTP A or select CTP B), ECOG 0–1, BCLC C or B not amenable/progressing: first-line atezolizumab+bevacizumab or durvalumab+tremelimumab (CTP A) – EGD for varices before atezo+bev; sorafenib/lenvatinib if ICI combo contraindicated	Strong		
47	Select CTP B: sorafenib, lenvatinib, or single-agent anti-PD1/PDL1 ICI	Weak		
48	Second-line if preserved liver function + progression/intolerance on first-line: sorafenib/lenvatinib after ICI combo; cabozantinib/regorafenib (or ramucirumab if AFP≥400) after TKI	Strong		
49	No ICIs for recurrent HCC after liver transplant (graft-loss/death risk) – use sorafenib/lenvatinib first-line instead	Strong		
50	Offer advance care planning to all patients on palliative-intent therapy or best supportive care, regardless of transplant eligibility	Weak		