

Case presentation

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Case 1

• A 35 year old M presented with HBsAg positive result. (March 2013)

- Back ground history
 - History of jaundice
 - intermittent bronchial asthma attack
 - Alcohol consumption on occasions
 - Family history

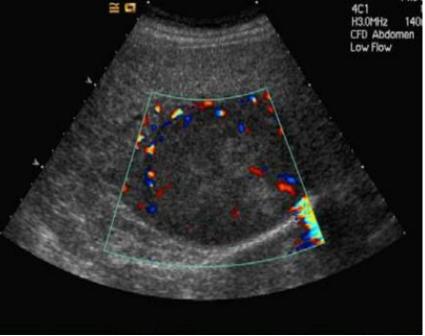
• Ascites

- Lab:
 - ALT and AST: 3x
 - ALP, INR, Bil & ALB: N
 - Plt: 90
 - HBeAg: negative
 - HBV DNA: 150,000u/ml

- Imaging: (US)
 Cirrhotic liver, ascites
- EGD:
 - Grade 1 EV
- HBV related Liver cirrhosis (Child A)
- On TDF , diuretic

- Regular follow up (1 yr)
 - UGIB, Worsening of Ascites
 - Repeat EGD: Esophageal varices (2), red signs
 - Imaging: same (cirrhosis, PHTN, no mass)
 - VL: undetectable
- NSBB, diuretics optimized
- TDF continued

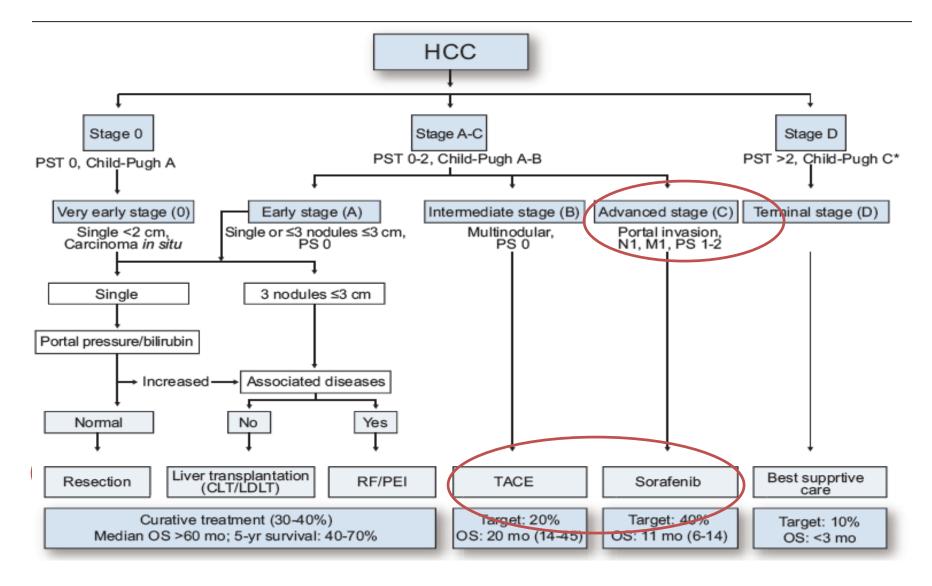
- Two years: on treatment:
 - Weight loss
- Imaging:US
 - Cirrhotic liver
 - Rt lobe mass, PVT
- CT: 7x5 cm mass, two more masses, PVT
- AFP: 10,500



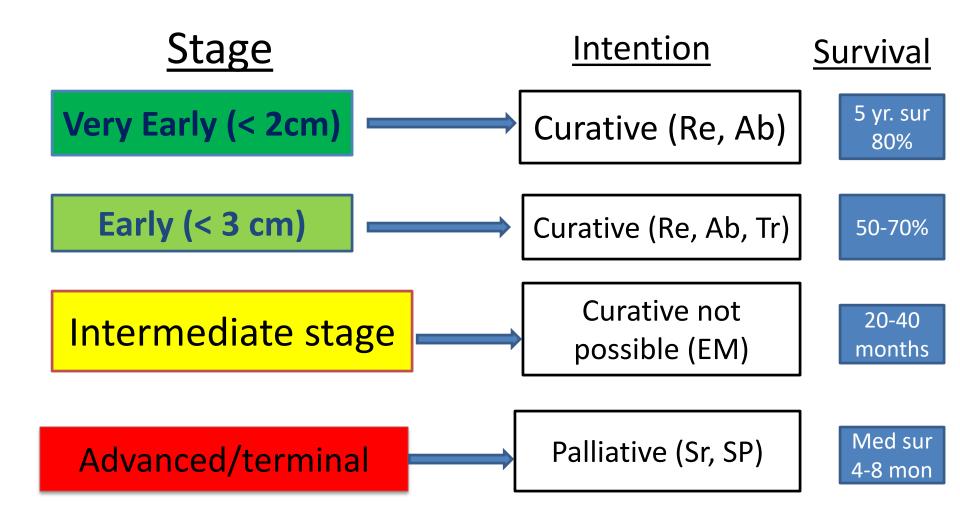
Management

- Pretreatment assessment:
 - Tumor size, number and location
 - Vascular invasion
 - Metastasis
 - Liver function, severity, reserve, Portal hypertension
 - Functional status
 - Distinguish the stage (BCLC)

Case 1: Treatment algorithm for HCC (BCLC)

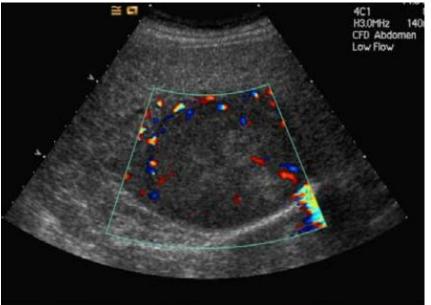


Management



Case 1: A 35 year old male with CHBV on TDF for 2 years Evidence of cirrhosis

- CT: 7x5 cm mass, two more masses, PVT
- TARE performed
- Sorafenib



 Severe hyper-bilirubinemia and HE

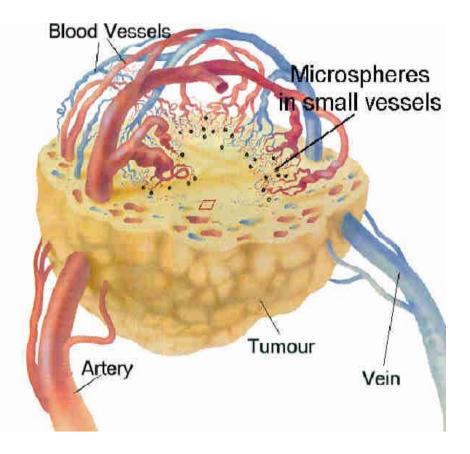
TACE

(Cisplatin, doxorubucin, Mitomycin)

- Un resectable Tumor
- Size > 5 cm
- Multifocal
- Bridge to transplantation
- Absence of PVT, HE, high bil

TARE (Yttrium-90 microspheres)

- In PVT (contraindication for TACE)
- Good outcome in preserved liver function in the presence of high tumor burden (7 or more)
- Downgrading to RFA
- Median survival: 16-18 months.

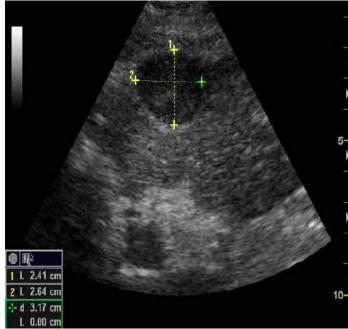


Case 2

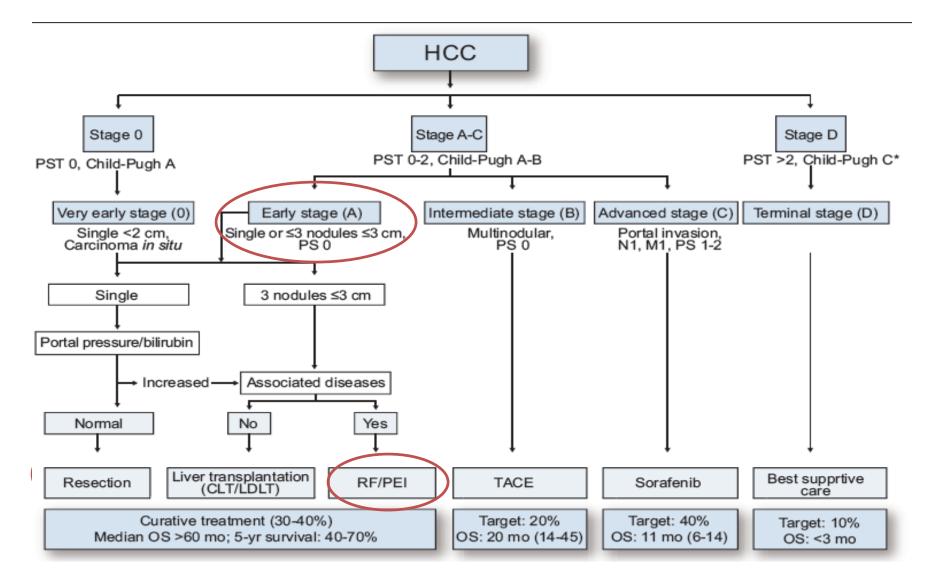
• A 55 year old woman presented with RUQ discomfort.

- Back ground history
 - Type II DM-5yrs on OHA
 - No family history of malignancy

- BMI 28
- HBsAg and Anti HCV Ab: N
- Abdominal US
 - Right lobe 2.4 x 3cm mass
 - Hyper-echogenic, irregular surface
 - Focal lesion? HCC)
- CT (triphasic): mass (HCC), no PVT, no metastasis
- AFP: N
- Liver biopsy: HCC

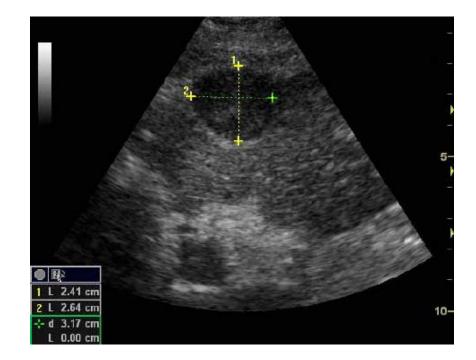


Case 2: Treatment algorithm for HCC (BCLC)



Case 2: A 55 year old female Known Type II

- CT: 2.4 x 3cm mass, no PVT, no metastasis.
- Surgical: Intraop: cirrhotic liver (high risk for resection)
- Injecting therapy (ethanol), RFA



Percutaneous Ethanol Injection (<3cm)

Survival Rates (%)

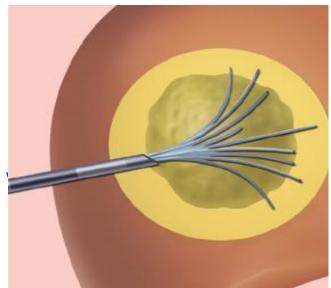
Child	1-yr	3-yr	5-yr
Α	96	72	51
В	90	72	48
С	94	25	0

* < 3cm, 93/112 single

RFA

- Surrounding tissue heat to induce coagulative necrosis.
- Lesion 3-5 cm, 3 or fewer lesions
- Comorbidities
- Metastatic

Avoid (Large > 5 cm, blood ducts , Child C)



RFA for HCC

Procedure	Survival		Recurrence	
	1 year	3 year	Local	Remote
RFA	100	72.7	18.2	40
Resection	97.9	83.9	2.2	43

SN Hong et al. J Clin Gastroenterol 2005;39:247 Samsung Medical Center, Seoul, Korea

Surveillance- How

- Ultrasound
 - Sensitivity: 29-100%
 - Operator dependent
- AFP:
 - Sensitivity of AFP: (41-65%)
 - Only 53% had raised AFP above 200
 - (longitudinal AFP, Age, Plt count, ALT- To improve sen and spe: needs more data)
 - AFP L-3, PIVKA-II (Jap guide line)
- Both US and AFP

Surveillance- When

- Every 6 months:
 - Sensitivity of 70% at 6 mon Vs 50% at 12 mon.
 Mourad A et al. Hepatology 2014; 59: 1471-1481
 - Japan guide line recommendation 3-4 months
 - more cases are detected

Summary

- HCC: screening and early detection even while on treatment
- NAFLD-HCC diagnosed at late stage/poor prognosis
- Prognostic evaluation is critical step (BCLC
- Assess liver function and tumor burden

Thank you