



UCCH Pathway

UCCH Guideline Hepatocellular Carcinoma

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Version Feb/2022

Guideline Hepatocellular Carcinoma

Version 03, Feb/2022

according to TNM classification 8th edition

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Implemented

Nov/2017

Revised

Mar/2019, Feb/2022

Next planned review

Feb/2024

Legend of Colours



= Therapeutic procedure



= Clinical or diagnostic condition



= Diagnostic procedure



= Clinical trial



= Supportive measure



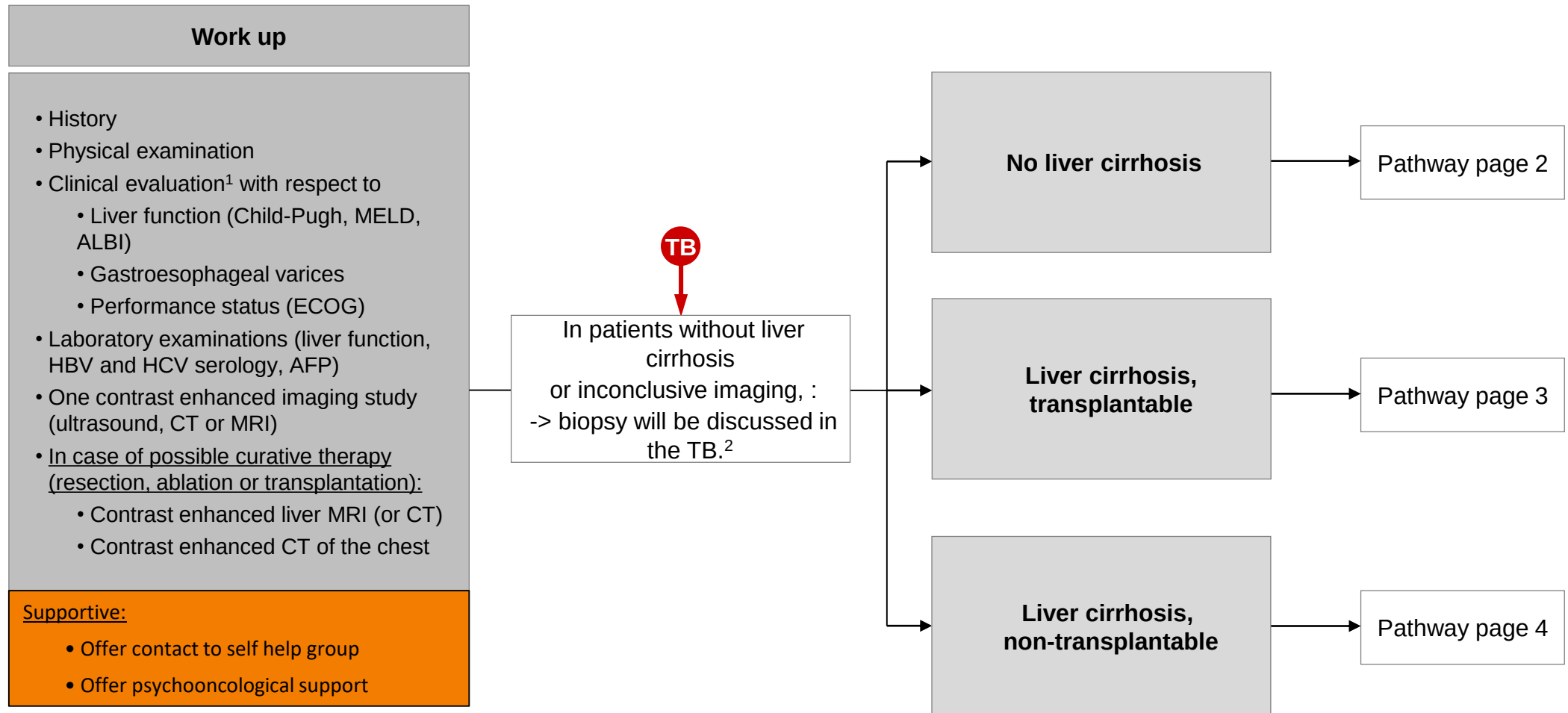
= Referral



= Tumorboard
(including post
tumorboard interaction
with patient that follows
the principles of shared
decision-making)



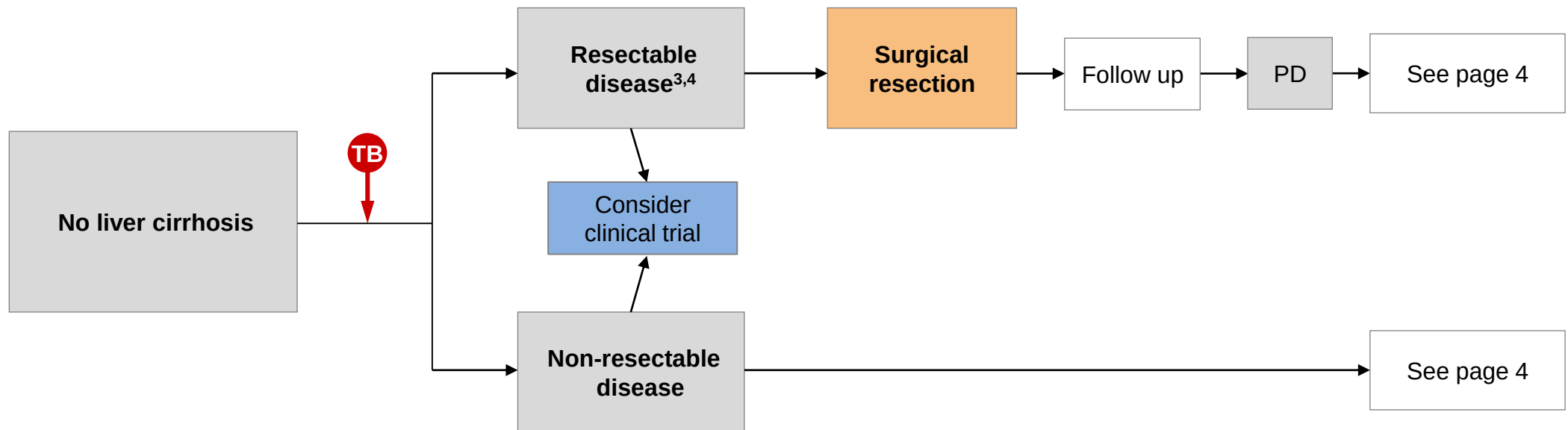
= Transplantboard



¹ See HCC screening on page 6.

² Histological confirmation including histopathological subtyping is required in all radiological unclear findings, in patients without proven cirrhosis, and in incurable disease (particularly with regard to clinical trials).

Pathway page 2: No liver cirrhosis

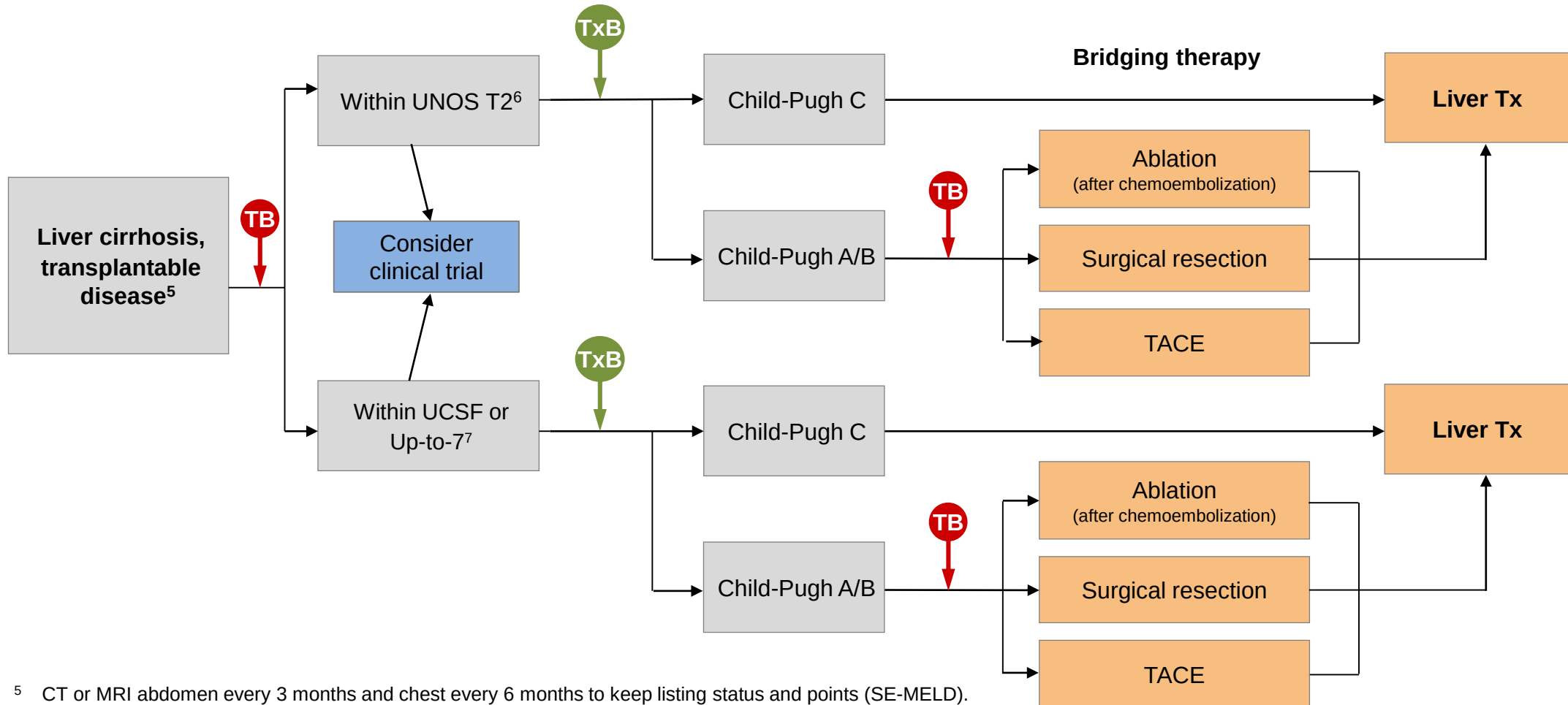


PD Progressive disease

³ Lesion(s) locally resectable, patient in good condition for surgery, without irresectable extrahepatic tumor manifestation, without tumor invasion into big hepatic vessels. Sufficient liver function.

⁴ Concomitant therapy of chronic HBV/HCV-infection.

Pathway page 3: Liver cirrhosis, transplantable



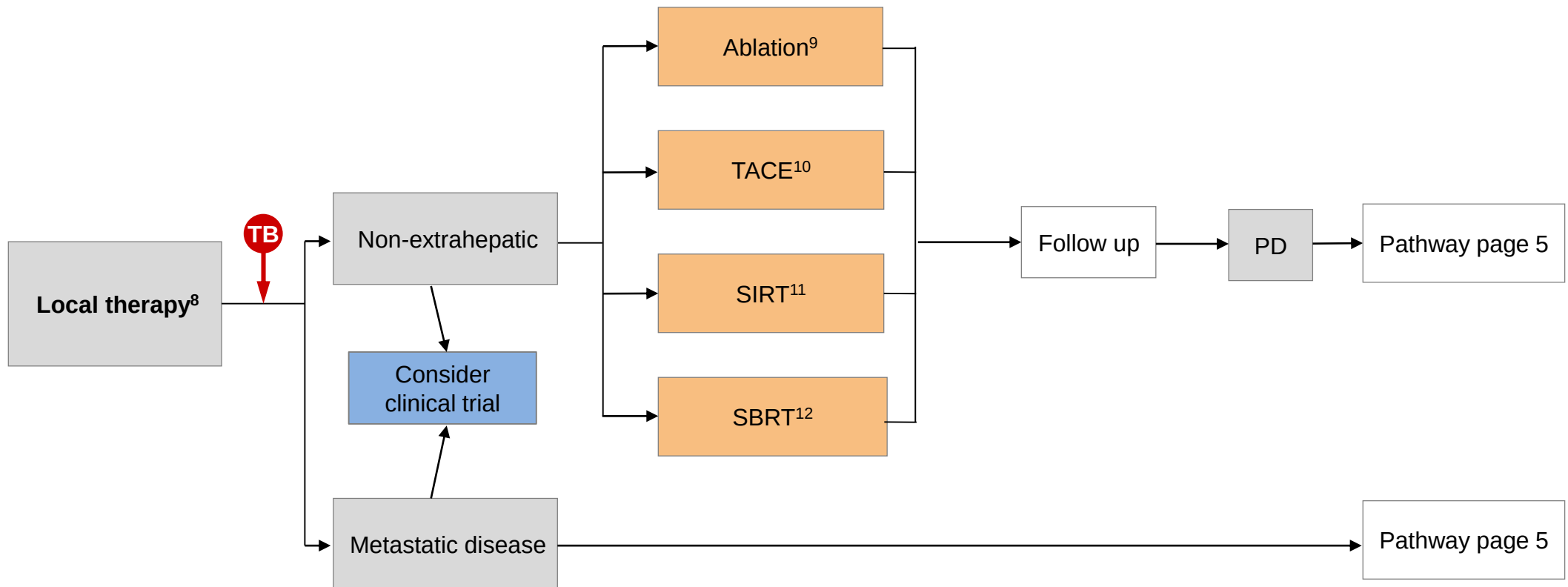
⁵ CT or MRI abdomen every 3 months and chest every 6 months to keep listing status and points (SE-MELD).

⁶ Liver Tx according to UNOS T2 with exceptional MELD (SE-MELD):

- 1x 2-5 cm or 2-3x 1-3 cm.
- no extrahepatic involvement, no major vessel involvement, no extrahepatic metastasis.

⁷ Apart from UNOS T2 criteria transplantation only exceptional if tumor within UCSF (University of California San Francisco) criteria (1 lesion not larger than 6.5 cm, or less than 3 lesions with diameters <4.5 cm, maximum sum of tumor diameters <8 cm) or Up-to 7 criteria (diameter of largest nodule in cm plus number of nodules).

Pathway page 4: Local therapy



⁸ Tumor not resectable and/or patient is not in acceptable condition for surgery (comorbidity), impaired liver function.

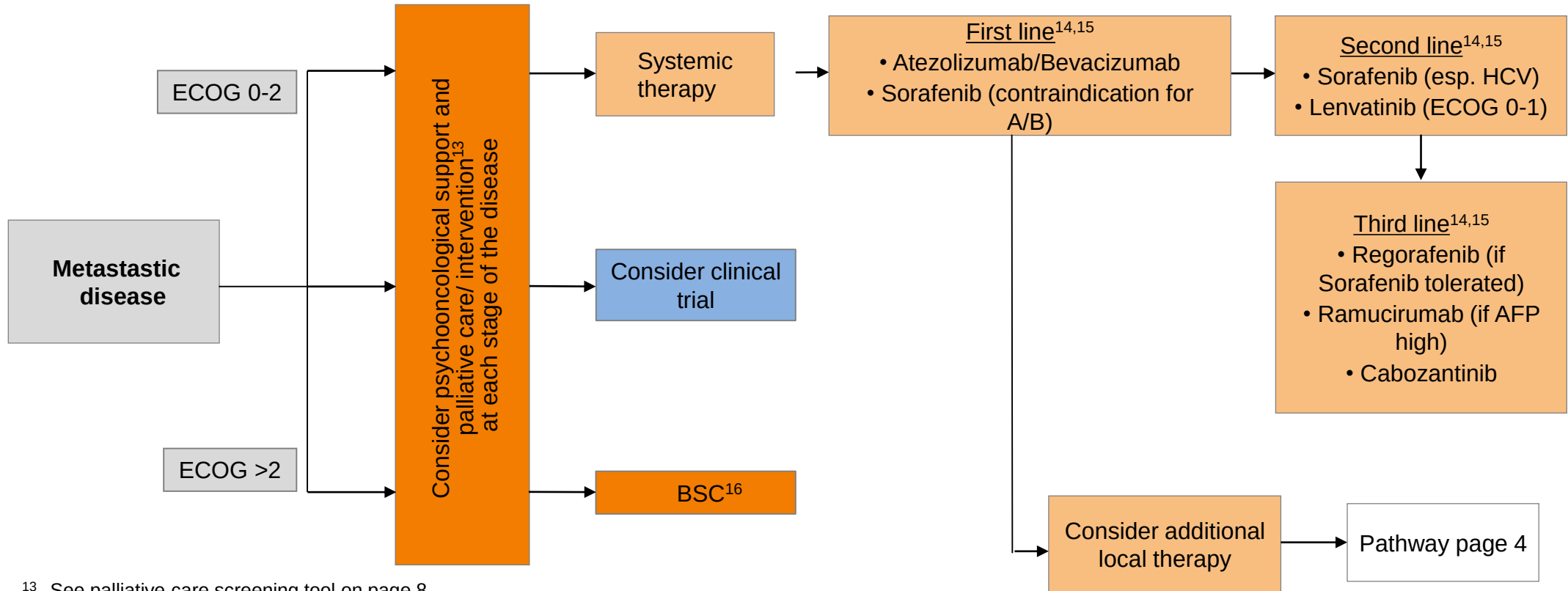
⁹ Consider pre-ablation chemoembolization in lesions >3 cm or to guide ablation.

¹⁰ TACE (transarterial chemoembolization) for solitary or multilocular HCC, with cisplatin or doxorubicine, repetition every 2-3 months depending on the findings in imaging. Contraindications for TACE: Child-Pugh C, complete portal vein thrombosis, metastatic disease or tumorinfiltration >75% of the liver, refractory ascites.

¹¹ SIRT (selective internal radiotherapy) only in individual cases, e.g. large primary tumor, portal vein thrombosis, or diffuse hepatic involvement.

¹² SBRT only in individual cases.

Pathway page 5: Metastatic disease



¹³ See palliative care screening tool on page 8

¹⁴ In metastatic disease or locoregional not otherwise treatable with the following criteria:

- Child-Pugh A/B
- ECOG 0-2
- Life expectancy >3 months

¹⁵ See palliative care screening tool on page 8.

¹⁶ BSC includes:

- Nutritional support to prevent malnutrition (dietary supplements, PEG)
- Treatment of pruritus according to AWMF-2-K guideline
- Sports and physical exercise therapy
- Psychological counseling
- Therapy of esophageal varices and ascites

Page 6: Hepatocellular Screening programme

Hepatocellular screening programme

Every 6 months in patients with liver cirrhosis, chronic active hepatitis B, hepatitis C with advanced fibrosis, histological confirmed NASH hepatitis

- Clinical presentation
- Lab exam (optionally including AFP)
- Ultrasound liver
 - Hepatic nodules <10 mm: Repeat follow up in 3 months
 - Hepatic nodules >10 mm: Confirmational contrast-enhanced imaging (ultrasound, CT or MRI) and additional work up (See pathway page 1)

Page 7: Follow up

- Offer contact to psychooncology and/or self help group whenever necessary

1.) After liver transplantation:

- According to Standard operation procedure of the UTC

2.) After surgical treatment:

Every 3 months for 2 years, afterwards every 6 months according to hepatocellular screening programme (page 6)

- Clinical presentation
- Laboratory exam
- Contrast enhanced CT or MRI
- Chest imaging if clinically indicated or every 6 months

3.) After local treatment:

8-12 weeks after TACE or ablation, then every 3 months for at least 2 years, afterwards every 6 months according to hepatocellular screening programme (page 6)

- Clinical presentation
- Laboratory exam
- Contrast enhanced CT or MRI

4.) Metastatic disease / Systemic treatment:

Every 3 months or if clinically indicated

- Clinical presentation
- Laboratory exam including AFP if initially elevated
- Abdominal imaging
- Chest imaging (only in patients with chest lesions, otherwise every 6 months)

Page 8: Palliative care screening tool

Screening items		Points
1.	• Presence of metastatic or locally advanced cancer	2
2.	• ECOG score (functional status score, performance status)	0-4
3.	• Presence of one or more serious complications of advanced cancer usually associated with a prognosis of < 12 months (e.g. brain metastases, hypercalcemia, delirium, spinal cord compression, cachexia)	1
4.	• Presence of one or more serious comorbid diseases also associated with poor prognosis (e.g. moderate-severe COPD or CHF, dementia, AIDS, end stage renal failure end stage liver cirrhosis)	1
5.	• Presence of palliative care problems	1
	a. • Symptoms uncontrolled by standard approaches	1
	b. • Moderate to severe distress in patient or family, related to cancer diagnosis or therapy (personal targets and expectations, educational and informational requirements, cultural factors)	1
	c. • Patient/family requests palliative care consult	1
	d. • Team needs assistance with complex decision making or determining goals of care (benefit/side effects of treatment)	1
	e. • Instable or deficient network especially for emergency situation or 24-h care	1

A total of > 5 points signals need for supportive palliative care