Supp. Table 1- Inclusion/Exclusion Criteria

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| Inclusion Criteria |
| Age ≥ 18 years, male and female  Histologically or cytologically confirmed hepatocellular carcinoma OR diagnosis made with characteristic enhancement in 4-Phase CT or MRI corresponding to AASLD- / EASL guidelines in cirrhotic patients.  Discussion in a routine multidisciplinary tumour board  Patients unsuitable for surgery, TACE\*, RFA, or alcohol ablation  Understanding of procedure, significance and consequences of the study  Signed informed consent  Bilirubin has to be < 4 x the upper limit of normal, AST or ALT < 6 x the upper limit of normal, international normalized ratio < 1.5 except if patients are on oral anticoagulation, haemoglobin≥ 90 g/L, platelets ≥ 50 x 109/L, and neutrophils ≥ 1.0 x 109/L |
| Exclusion Criteria |
| None of the following criteria must be present at the time of registration:  Active hepatitis  (Child-Turcotte-Pugh (CTP) C liver score\*)  (Hepatic encephalopathy more than Grade 1 according to Child Pugh criteria\*)  Gastric, duodenal or variceal bleed within 2 months of registration  Prior radiotherapy of the region to be treated  For female patients: Pregnancy, planned pregnancy |

\*this applies only for the first study. In the subsequent study, no limitations were applied.