



Universiteit  
Leiden

The Netherlands

## **Advancements of interventional oncology treatments for early stage hepatocellular carcinoma**

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# STELLINGEN

behorende bij het proefschrift:

## **Advancements of interventional oncology treatments of early stage hepatocellular carcinoma**

1. Image fusion of pre- and post ablation CT-scans should be the standard in defining thermal ablation treatment success as it is a more objective endpoint and less susceptible to inter-observer variability. – *This Thesis*
2. Hyperemia around the ablation zone can be used to deliver a high dose of radioembolization at the sites with the highest chance of local recurrences and could therefore be considered when treating larger lesions or at sites at risk of insufficient ablation margins. – *This Thesis*
3. When thermal ablation and TACE are combined for treatment of larger HCC lesions (>3 cm), TACE should be performed first. – *This Thesis*
4. Late onset of liver decompensation after whole-liver radioembolization treatment occurs frequently. Patients should be informed about this specific complication risk upon obtaining informed consent. – *This Thesis*
5. A better understanding of tissue shrinkage during thermal ablation is the next step for clinical implementation of ablation margin quantification. – *This Thesis*
6. Quantifying an outcome measure often leads to reducing a multidimensional problem to a single number. One should be aware of its context in interpreting this quantified measure.
7. The technical physician can contribute to optimized, efficacious and safe application of advanced technology in the domain of interventional oncology.
8. An integrated Angio-CT system will contribute to the versatility of the interventional radiologist, opening doors for further advancement and integration of various procedures.
9. We are approaching a period of perfect tools and unfocussed targets – *Albert Einstein*  
Patient selection is key for obtaining best results for interventional oncology treatments.
10. Music has the ability to heal wounds that no medicine can touch. – *Gustav Mahler*  
It takes more than a treatment to heal a patient.

*Pim Hendriks*  
*Leiden, 5 september 2024*