



HepatoPredict

*A prognostic tool supporting the decision of liver transplantation
in hepatocellular carcinoma*

Liver transplantation (LT) is the best curative treatment for HCC patients. Currently used criteria to identify patients for transplantation are either **too strict**, rejecting patients that could benefit from the transplant or **overestimate the benefit from a LT**, selecting patients that will relapse afterwards.

HepatoPredict addresses this clinical challenge by identifying HCC patients that will benefit from a liver transplant with high precision and sensitivity.



Captures biology of the tumor through a **gene expression** signature



Combines **tumor biomarkers** with **clinical variables**



Integrates data through **machine learning** algorithm



Outperforms current criteria for liver transplantation



Results in less than 24h;
Hands-on time: 5h



Results in a clear and objective report



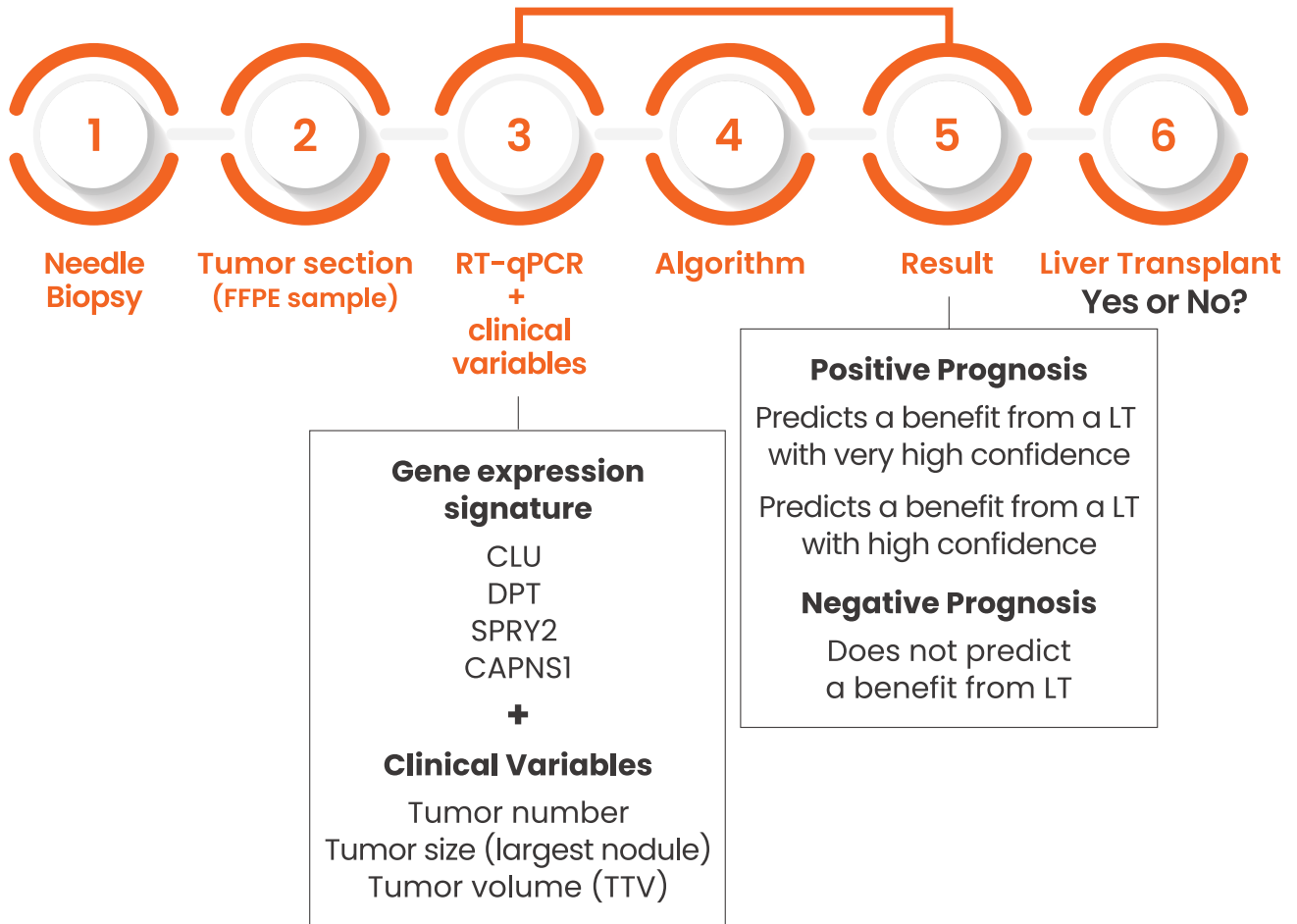
Easy access to results via "MyOphiomics" portal

Identifies patients that benefit from LT with high precision PPV=94%

Identifies 30% more patients than currently used criteria PPV=88.5%

HepatoPredict relies on a proprietary algorithm developed by Ophiomics

HepatoPredict



Clinically and analytically validated

References

Pinto-Marques et al. (2022) A gene expression signature to select hepatocellular carcinoma patients for liver transplantation. *Annals of Surgery*. *In press*

Gonçalves Reis et al. (2022) Analytical validation of HepatoPredict kit to assess hepatocellular carcinoma prognosis prior to a liver transplant. *Submitted*

Cardoso et al. (2022) New criteria in liver transplantation for hepatocellular carcinoma: a combined molecular and clinical predictor of survival [Oral presentation]. *Transplantation*. <https://ilts.org/education/abstracts>.

Cardoso et al. (2021). A new tool for predicting survival in liver transplantation for hepatocellular carcinoma combining molecular and clinical variables [Poster Presentation]. *Journal of Hepatology*, 75(2), S475. [https://doi.org/10.1016/S0168-8278\(21\)01843-2](https://doi.org/10.1016/S0168-8278(21)01843-2).

Benefits For Clinical Centres/ Medical Professionals

- More effective organ allocation
- Better success rates for liver transplantation
- Better waiting lists management
- Reduced costs per successful transplant (less resources spent on failed transplants)

Benefits For Patients

- Access to curative-intent treatment for patients currently not eligible for liver transplant
- Can provide earlier access to transplantation waiting list for downstaged patients if used instead of a 'wait-and-see' approach
- Early identification of bad prognosis patients can direct them earlier for more effective treatments
- Better quality of life



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