

# Recurr-NET – Predicting hepatocellular carcinoma outcomes after surgery with image-based deep learning

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## Technology

- We utilized CT images and clinical parameters from hepatocellular carcinoma (HCC) patients to develop Recurr-NET
- Recurr-NET is a multimodal multiphasic residual-network random survival forest deep learning model
- Recurr-NET can accurately predict post-operative recurrence and mortality after HCC surgery

## Stage of Development

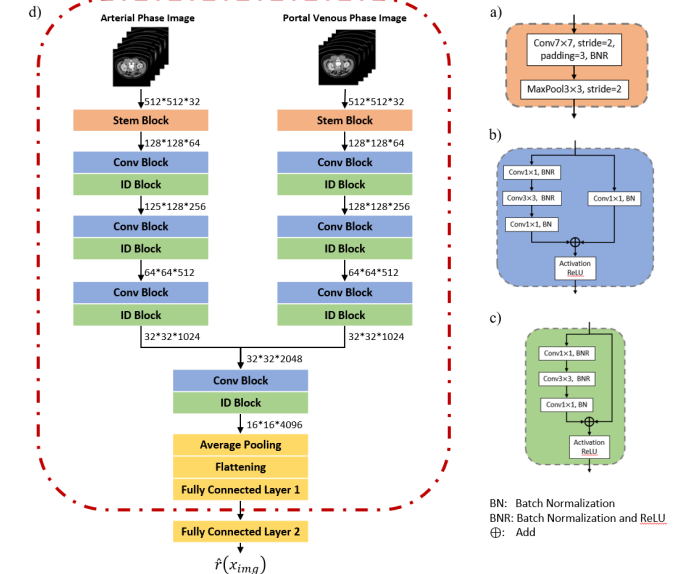
- The data has been published and a patent has been filed

## Key Advantages

- Recurr-NET was rigorously developed, with training, internal validation, and external testing
- Recurr-NET had superior predictive performance for adverse outcomes when compared with histological parameters and clinical risk scores

## Opportunities

- Our data highlighted the potential of image-based deep learning and may influence clinical practise



## Intellectual Property

- Manuscript published in *Hepatology*
- Patent filed in US and China

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