Simple test for dangerous and SEVERE form of liver disease could save hundreds of lives

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A NEW non-invasive method of predicting the risk of developing a severe form of liver disease could save the lives of hundreds of patients

The test could make sure people receive early and medical treatment  before irreversible damage is done.

Using information collected in a liver biopsy study, researchers at Cardiff University have found a way of determining the onset of non-alcoholic steatohepatitis (NASH).

The experts analysed lipids and clinical markers in blood which could point toward the condition.

NASH is the most extreme form of non-alcoholic fatty liver disease - a range of conditions caused by a build-up of fat in the liver.

With NASH, inflammation of the liver damages the cells, potentially causing scarring and cirrhosis.

Currently, the diagnosis of NASH can only be done with a liver biopsy which is an invasive and costly procedure.

The new research could lead to a simple blood test which could catch the onset of NASH before inflammation damages the liver.

Dr You Zhou from Cardiff University’s Systems Immunity Research Institute, said: “Many people with non-alcoholic steatohepatitis do not have symptoms and are not aware they are developing a serious liver problem.

“As such, diagnosis often comes after irreversible damage is done.”

Dr Zhou added: “Our quicker and less invasive method of diagnosis could mean that more people with non-alcoholic fatty liver disease could be easily tested to determine whether they are progressing to non-alcoholic steatohepatitis, the more severe form of the disease.”

Experts argue a healthy liver should contain little or no fat.

But it is estimated that around 20 per cent of people in the UK have early stages of liver disease where there are small amounts of fat in their liver.

NASH is estimated to affect up to five per cent of the UK population and is now considered to be one of the main causes of cirrhosis – a condition where irregular bumps replace the smooth liver tissue, making it harder and decreasing the amount of healthy cells to support normal functions.

This can lead to complete liver failure.

Common risk factors for both NAFLD and NASH are obesity, lack of physical exercise and insulin resistance.

But if detected and managed at an early stage, it's possible to stop both NAFLD and NASH from getting worse.

The new method of NASH diagnosis will undergo further investigation with a view to developing a simple blood test that can be used by clinicians to provide effective medical care for patients at high risk of the disease.

The study is published in Clinical Gastroenterology and Hepatology.