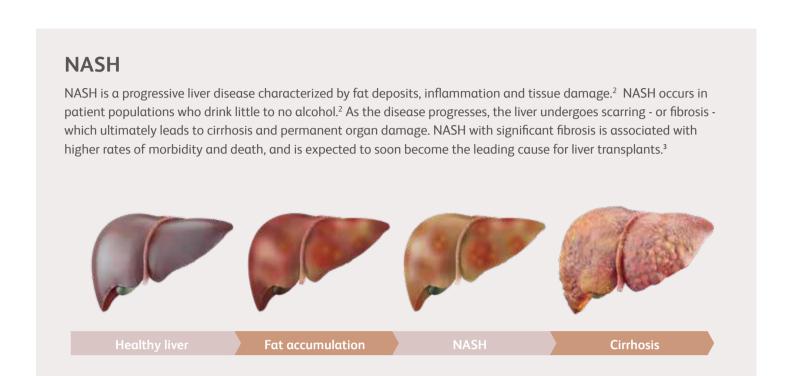
PRO-C3 as a NASH Biomarker

Biomarkers in NASH

Biomarkers can function as diagnostic tools, predict disease progression for individual patients and/or identify those patients who are more likely to respond to a particular treatment.

Consequently, biomarkers have the potential to accurately inform treatment decisions and improve disease outcomes.

The prevalence of nonalcoholic steatohepatitis (NASH) has rapidly increased in recent years due to the rise in obesity. The current NASH diagnosis is achieved through a liver biopsy. Validated biomarkers are needed to assess disease activity and response to interventions in patients with NASH.



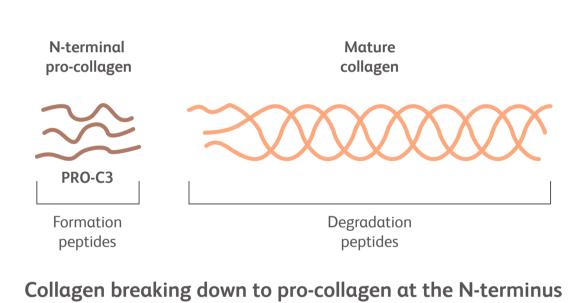
Fibrosis and Biomarkers

Fibrosis is a stage of liver scarring characterized by the accumulation of a protein called collagen.

During fibrosis, small fragments of collagen, called pro-peptides, are released. These pro-peptides may be useful as biomarkers as they reflect the formation of collagen and therefore, the formation of fibrotic tissue.

Type III collagen is one of the most abundant proteins in fibrotic tissue and a reliable biomarker for liver fibrosis. 4 PRO-C3, the pro-peptide of type III collagen, may be an accurate biomarker for the formation of fibrotic tissue in the liver.

Type III Collagen Biomarkers



Clinical Implications

being investigated to understand if it may: Identify patients more likely to

The potential of PRO-C3 as a biomarker of fibrosis disease activity is

treatment for liver fibrosis • Reflect changes in fibrosis disease severity while undergoing treatment

benefit from and respond to



PRO-C3 is a biomarker that detects the formation of type III collagen and can be measured with a blood test.

Other collagen biomarkers detect a specific type of collagen but do not distinguish between newly formed and older collagen. PRO-C3 detects the synthesis of type III collagen which is anticipated to reflect the formation of new fibrotic tissue.

At present, there are no biomarkers for fibrosis available that can predict or determine a response to therapy. PRO-C3 has potential as both a prognostic marker for disease activity and outcome, and may also be able to identify patients with active disease.

PRO-C3 is one of many biomarkers under investigation at Bristol Myers

Squibb and is being studied in collaboration with Nordic Bioscience who discovered this biomarker.

Learn more about our work in fibrosis by visiting: www.bms.com/researchers-and-partners/areas-of-focus.html