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Clinical role of non-invasive assessment of portal ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5221271>

Jan 07, 2017 · Indeed, many parameters indicating the presence of portal hypertension could be identified non-invasively, including the presence of **collateral vessels**, **spleen enlargement**, **ascites**, change in the portal vein parameters (e.g. increase in **diameter**, disappearance of **caliper variation** during respiration, decrease in **blood flow velocity**, increase in the **congestion index**), increase in ...

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Author: Massimo Bolognesi, Marco Di Pascoli, D...

Publish Year: 2017

Non-invasive assessment of portal hypertension using ...

<https://pubmed.ncbi.nlm.nih.gov/27475617>

Non-invasive assessment of portal hypertension using quantitative magnetic resonance imaging. In patients with cirrhosis, the development and progression of **portal hypertension** is related to worse outcomes. However, the standard technique of assessing **portal pressure** is **invasive** and not widely used in clinical practice.

Portal hypertension

Portal hypertension is hypertension in the hepatic portal system – made up of the portal vein and its branches, that drain most of the intestine to the liver. Portal hypertension is defined as a hepatic vein pressure gradient. Cirrhosis is the most common cause of portal hypertension; other, less frequent causes are therefore grouped as non-cirrhotic portal hypertension. When it becomes severe enough to cause symptoms or complications, treatment may be given to decrease portal hypertension itself or to manage its complications.



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5123896>

Here, we have studied the use of **non-invasive MRI** in **evaluating portal pressure**. The MRI measures of **liver architecture** and blood flow in the **splenic artery** correlated well with **portal pressure**. Therefore, this **non-invasive method** can potentially be used to assess **portal pressure** in clinical trials and **monitoring treatment** in practice.

Cited by: 64 **Author:** Naaventhana Palaniyappan, Ele...
Publish Year: 2016

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[Non-invasive Assessment of Portal Hypertension in ...



Name of Journal: *World Journal of Hepatology*
Manuscript NO: 58253
Manuscript Type: ORIGINAL ARTICLE

Retrospective Study
Non-invasive splenic parameters of portal hypertension: Assessment and utility

Ahmad AK *et al.* Non-invasive splenic parameters of portal hypertension

Ayesha Karim Ahmad, Sebastiana Atzori, James Maurice, Simon Taylor-Robinson, Adrian Lim

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