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**Name of Journal:** *World Journal of Hepatology*

**Manuscript NO:** 62189

**Manuscript Type:** ORIGINAL ARTICLE

*Clinical and Translational Research*

**Bile acid indices as biomarkers for liver diseases: Diagnostic markers**

BA Indices as Diagnostic Biomarkers

## Abstract

### BACKGROUND

Hepatobiliary diseases result in the accumulation of toxic bile acids (BA) in the liver, blood, and other tissues which may contribute to an unfavorable prognosis.

### AIM

To discover and validate diagnostic biomarkers of cholestatic liver diseases based on the urinary BA profile





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## Bile Acids as Potential Biomarkers to Assess Liver ...

<https://pubmed.ncbi.nlm.nih.gov/29587557>

Total serum **bile acids** correlated with **markers** of liver impairment (liver weight, total **liver bile acids**, total hepatotoxic **liver bile acids**, and cyst volume [  $r > 0.75$ ;  $P < 0.05$ ]). Based on these data, serum **bile acids** may be useful **biomarkers** of liver impairment in polycystic hepatorenal disease.

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Publish Year: 2018

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## Assessment of serum bile acid profiles as biomarkers of ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0193824> ▾

Mar 07, 2018 · The measurement of total bile acids (TBA) is considered a **biomarker** of liver function and an indicator of hepatobiliary impairment or disease. TBA **measurement** corresponds to the sum of more than 20 individual **bile acids** (IBA) that are synthesized by the liver, modified by gut bacteria, and involved in complex enterohepatic circulation.

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## Urinary bile acids as biomarkers for liver diseases II ...

<https://experts.umn.edu/en/publications/urinary...> ▾

Further, the identification of the bile acid biomarkers associated with liver disease is BA





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Author: William J Brock, James J Beaudoin, Jason ...

Publish Year: 2018

## Oxidative stress markers, secondary bile acids and ...

<https://www.ncbi.nlm.nih.gov/pubmed/26325587>

Aug 05, 2016 · The aim of this study was to identify promising biomarkers for distinguishing the symptom-based types of **liver injury** (e.g. hepatocellular injury, cholestasis), which was derived from a...

Cited by: 19

Author: Noriko Masubuchi, Masahiro Sugihara, To...

Publish Year: 2016

## "Urinary Bile Acid Indices as Diagnostic and Prognosis ...

<https://digitalcommons.unmc.edu/etd/469> ▾

In addition, **BA indices** demonstrated high area under the receiver operating characteristic (ROC) curves, and changes of **BA indices** were associated with the risk of having a **liver disease** as determined by the...

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### Bile acid (Steroid Acid)

Bile acids are steroid acids found predominantly in the bile of mammals and other vertebrates. Diverse bile acids are synthesized in the liver. Bile ...