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Name of Journal: *World Journal of Radiology***Manuscript NO:** 54747**Manuscript Type:** REVIEW**Diagnostic problems in two-dimensional shear wave elastography of the liver**

Hiroko Naganuma, Hideaki Ishida, Atsushi Uno, Hiroshi Nagai, Hidekatsu Kuroda,
Masahiro Ogawa

Abstract

Two-dimensional shear wave elastography (2D-SWE) is used in the clinical setting for observation of the liver. Unfortunately, a wide spectrum of artifactual images are frequently encountered in 2D-SWE, the precise mechanisms of which remain incompletely understood. This review was designed to present many of the artifactual images seen in 2D-SWE of the liver and to analyze them by computer simulation

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The performance of two-dimensional (**2D**) shear-wave elastography (SWE) was higher than that of other **noninvasive methods**. **2D SWE** was most effective in ruling in and ruling out **cirrhosis** in participants with **chronic infection**, which may **prompt antiviral treatment**.

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