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Name of Journal: *World Journal of Virology*

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Manuscript Type: REVIEW

Reviewers' comments

In the present review article, Serological and molecular assays about HBV and HCV diagnosis is updated. In general article is relatively well-written and logically arranged. Following comments may help to improve the article:

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Please try to provide concluding remarks at the end of each section of the article related to the information provided in that section, summarizing the advantages and disadvantages and specific applications. (HBV serological assays section, HBV molecular assays etc.).

Concluding remarks summarizing the advantages and disadvantages and specific applications of assays were included at the end of each section of the article.

- Please provide authors opinion for future prospects concerning these assays in the conclusion section.

Future prospects concerning these assays were included in the conclusion section.

- Please make two further tables concerning available serological assays on HBV and HCV, specially the evolution of HCV serological assays.

Two tables (tables 2 and 5) concerning available serological assays on HBV and HCV were included.

- Please try to summarize the detailed information provided on different aspects of HBV and HCV assays in specialized tables with separate columns referring to the references.

Information regarding different aspects of HBV and HCV assays were included in tables 2,4,5.

- Please try to refer to prior related review articles and indicate what is added to the information provided in this manuscript compared to prior ones, specially two recent following review articles: - Chakravarty R, Diagnosis

and monitoring of chronic viral hepatitis: serologic and molecular markers. Front Biosci (Schol Ed). 2011 1;3:156-67. - Albertoni G et al, Mini review: current molecular methods for the detection and quantification of hepatitis B virus, hepatitis C virus, and human immunodeficiency virus type 1. Int J Infect Dis. 2014;25:145-9.

In the present study, reviews articles were included: Kao et al. 2008; Weber et al. 2005; Khuroo et al. 2014; Uliana et al. 2014; Yao et al. 2014; Chevaliez et al. 2008; Valsamakis et al. 2007; Datta et al. 2014; Pawlotsky, 2008, 2002; Chevaliez et al. 2006; Scott et al. 2007; Albeldawi et al. 2010; Lok et al. 1997; Heiat et al. 2014; Parisi et al. 2014; Khuroo et al. 2015; Albertoni et al. 2014; Stephane et al. 2007.

Those studies discuss only one aspect of viral hepatitis diagnosis, for example, rapid tests for HBV, rapid test for HCV, molecular methods for HBV or molecular methods for HCV. In the present study, serological and molecular methods for HBV and HCV diagnosis were reviewed. In addition, new methods such biosensors and ultra deep sequencing were discussed in the present article giving new and updated information about this theme. So the new information provided in the present manuscript compared to prior ones, specially Chakravarty (2011) and Albertoni G et al (2014) were included in conclusion section, page 28.

Reviewer 2

The review article entitled "Update on hepatitis B and C virus diagnosis" is written very well and covers the serological and molecular methods of HBV/HCV detection efficiently. The article contains valuable information and will be of help for the readers.

Minor revision: While describing the HCV genotyping on page 23; authors should mention about the recent report on the diagnostically untypable HCV variants circulating in Pakistan.

The recent report on the diagnostically untypable HCV variants circulating in Pakistan was included in the article, page 28.