

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 20235

Title: Metabolic alterations and hepatitis C: From bench to bedside

Reviewer's code: 00011310

Reviewer's country: Italy

Science editor: Jing Yu

Date sent for review: 2015-06-04 08:50

Date reviewed: 2015-06-13 19:38

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The work of Ming-Ling Chang entitled: Metabolic alterations and hepatitis C: from bench to bedside analyse the metabolic alterations that accompany the HCV infection and which are responsible of premature death for cardiovascular pathology in infected patients vs non-infected population. Lipid and glucose metabolism during the HCV infection are prevalently reviewed. In fact, HCV infection is often accompanied by a series of alterations, prevalently metabolic such as dyslipemia, liver steatosis, diabetes mellitus, insulin resistance, all conditions related to the metabolic syndrome. These conditions, their prevalence, the possible pathogenetic explanation and association with the different genotypes of HCV are discussed. Studies in vitro and animal and human studies are reviewed in support of these alterations. Interesting the current therapy with DAA, which is able to eradicate HCV infection, will allow us to compare the cardiovascular risk before and after eradication of the virus, so defining the true role that HCV plays in the development of cardiovascular risk factors associated with the infection. The work is well written and well balanced and brings some lights in a complex area of HCV infection. In the opinion of this reviewer this review is suitable for publication in WJG. However, some little corrections are needed: Page 4, line 17: glycoprotein 1



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needs to be corrected to glycoprotein 1 Page 19, line 2: “.... is not associated ?? therapeutic response.
Page 50: Figure Legends. In the opinion of this reviewer more informations are needed for figure 2,3
and 4. Or, at least, the authors have to mention “see the text for explanation”. However, in the legend
of figures 3 and 4 “altetrations” needs to be corrected. In Figure 2, page 52, Fushion is perhaps Fusion?

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 20235

Title: Metabolic alterations and hepatitis C: From bench to bedside

Reviewer's code: 00008288

Reviewer's country: Japan

Science editor: Jing Yu

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Date reviewed: 2015-06-30 02:43

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Basically this review is well analyzed a number of papers regarding HCV and metabolism. Several points should be revised. Major 1. First of all, liver dysfunction such as cirrhosis induced by HCV, HBV or NASH, could evoke diabetes, etc by the deterioration of functional reserve of the liver itself. At least HBV could also induce the similar metabolic change. Author should comment the difference of the etiological specificities. 2. As the author described in the last part of the paper, lots of the metabolic disorder could be evoked by HCV infection but not only interferon but DAA could eradicate HCV these days. Most of the preliminary data and in vitro research would be re-evaluated after SVR was achieved. At least one table which documents the metabolic disorder and whether recovery after SVR or not should be added. Otherwise clinician could not believe HCV could induced so many metabolic event by infection itself. Minor The last part of 1-(3) documented direct viral invasion of cardiac vascular tissues cannot be acceptable because HCV tropism specifically to hepatocytes and macrophage etc. No citations were described. Figures should be explained precisely. In the figure 3, virus like particle was not explained at all. Is it LVP? Moreover how does Glut influence HCV in the figure 3? There are several subtypes of Glut. The text clearly documented



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Glut 2. The figure should describes as Glut 2. In the figure 2, what is LD?