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ESPS Peer-review Report
Name of Journal: World Journal of Cardiology
ESPS Manuscript NO: 7834
Title: Essential hypertension and oxidative stress: New insights
Reviewer code: 02640286
Science editor: Qi, Yuan
Date sent for review: 2013-12-03 19:24
Date reviewed: 2013-12-11 18:52

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[ ] Grade A (Excellent)	[Y] Grade A: Priority Publishing	Google Search:	[Y] Accept
[Y] Grade B (Very good)	[ ] Grade B: minor language polishing	[ ] Existed	[ ] High priority for publication
[ ] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	
[ ] Grade D (Fair)		BPG Search:	[ ]Rejection
[ ] Grade E (Poor)	[ ] Grade D: rejected	[ ] Existed	[ ] Minor revision
		[ ] No records	[ ] Major revision

COMMENTS TO AUTHORS
It is a well written review with quite satisfactory coverage of the literature and well use of the english language. The section refering to the pharmacological attempts to reduce BP is limited and enrichment with other attempts than vitC should be made. The synergy or mechanism of action of typical antihypertensive classes of medication with anti-oxidantsshould be addressed briefly. Section7 on polyphenols needs enrichment . A suggestion would be a joint section with terpenoids like lycopene.

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ESPS Peer-review Report
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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[ ] Grade A (Excellent)	[Y] Grade A: Priority Publishing	Google Search:	[ ] Accept
[Y] Grade B (Very good)	[ ] Grade B: minor language polishing	[ ] Existed	[Y] High priority for publication
[ ] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	
[ ] Grade D (Fair)		BPG Search:	[ ]Rejection
[ ] Grade E (Poor)	[ ] Grade D: rejected	[ ] Existed	[ ] Minor revision
		[ ] No records	[ ] Major revision

COMMENTS TO AUTHORS

This is a comprehensive review article on the potential roles of oxidative stress in the pathophysiology of essential hypertension and clinical attempts to demonstrate the usefulness of antioxidant therapy in the treatment of hypertension. It provides useful updated information on this important field. This reviewer has following suggestions: 1) It seems like the cellular/molecular link between ROS/NO and hypertension is missing. What are the downstream reactions after NFkB, NO and PGI2 in Figure1? 2) The following research and review article should be quoted Hairuo Wen, Judith K Gwathmey and Lai-Hua Xie. Oxidative stress-mediated effects of angiotensin II in the cardiovascular system World J Hypertens. 2012; 2(4): 34-44. http://www.wjgnet.com/2220-3168/full/v2/i4/34.htm Sesso HD, Buring JE, Christen WG, Kurth T, Belanger C, et al. Vitamins E and C in the prevention of cardiovascular disease in men: the Physicians' Health Study II randomized controlled trial. JAMA. 2008;300(18):2123-33. Minor points: 3) Line 40-50: Endothelial dysfunction. Please provide literature(s) for this section. 4) Line 65-66: need more details here: i.e. what stress-related parameters? And genetic deficient in what ROS-generating enzymes? 5) Line 337: Typo: concentration of 80 1M ?

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ESPS Peer-review Report
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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[ ] Grade A (Excellent)	[Y] Grade A: Priority Publishing	Google Search:	[ ] Accept
[Y] Grade B (Very good)	[ ] Grade B: minor language polishing	[ ] Existed	[ ] High priority for publication
[ ] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	[ ]Rejection
[ ] Grade D (Fair)	[ ] Grade D: rejected	BPG Search:	[Y] Minor revision
[ ] Grade E (Poor)		[ ] Existed	[ ] Major revision
		[ ] No records	

COMMENTS TO AUTHORS
Manuscript # 7834 (Essential hypertension and oxidative stress: New insights by Jaime GONZáLEZ et al) GONZáLEZ et al reviewed oxidative stress and essential hypertension (? Hypertension) and outlined therapeutic approach targeting antioxidants in management of essential hypertension. Only a few comments to make in this manuscript. Major 1) Endothelial dysfunction under Pathophysiology needs expansion with relevant references. And then relate to oxidative stress and ROS to highlight the importance of antioxidants. OR remove pathophysiology subheading and just describe ROS, oxidative stress and antioxidant in review as this review focuses on oxidative stress . Minor 1) In Figure 1, AT1R instead of AT1; ETAR instead of ETA; ? ACE; ? ACh: ? VSMC and check all others in Figure 1 and corresponding legend. 2) In Figure 1, NADPHox means NADPH oxidase? If so, check with NOX (abbreviation for NADPH oxidase used in text) to choose uniform abbreviation for NADPH oxidase. 3) In figure 1, coupled eNOS and uncoupled eNOS should be clearly shown (as they produce production of NO/superoxide differently). 4) Table 1 should maintain the similar style of reference as in text. 5) maintain similar abbreviation for urotensin-II (? U-II or UT-II) throughout text and figure