



SDI Review Form 1.6

Journal Name:	<u>British Journal of Medicine and Medical Research</u>
Manuscript Number:	2015_BJMMR_17689
Title of the Manuscript:	Mutations and pathogenesis of myeloproliferative neoplasms: Review
Type of the Article	Review Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	My main point is that the Authors do not consider the recent papers from the group of Florence, were a clear relation between the prognosis of MF and the coexistence of different mutations has been ruled out. The Florence's authors demonstrated that PMF survival can be stratified on the basis of combined mutations find in a patient. I think that, in a complete review on mutations and pathogenesis of MPN, a chapter on this topic cannot be omitted	In the conclusion section, the impact of the coexistence of different mutations were discussed alluding to the below mentioned publication by Tefferi A. et al, who studied the correlation between mutation combinations and prognostic significance in their large cohort of PMF patients. Tefferi A, Guglielmelli P, Lasho TL, Rotunno G, Finke C, Mannarelli C, Belachew AA, Pancrazzi A, Wassie EA, Ketterling RP, Hanson CA, Pardanani A, Vannucchi AM. CALR and ASXL1 mutations-based molecular prognostication in primary myelofibrosis: an international study of 570 patients. Leukemia. 2014 Jul;28(7):1494-500. doi: 10.1038/leu.2014.57.
<u>Minor</u> REVISION comments	To improve it impact I suggest - To insert a table summarizing the different impact of various mutations in each MPN - The IDH mutation chapter is too long, mainly before recent knowledge show that these mutations are not really important in MPN	- A table summarizing the different impact of various mutations was added as table 1. -Various studies as mentioned in the review demonstrated the prognostic impact of IDH mutations in PMF. For example, the recent paper (Hematology Am Soc Hematol Educ Program. 2014 Dec 5;2014(1):287-96) showed that IDH1/2 correlate with poorer



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		outcome in PMF as regards to LFS and OS.
<u>Optional/General</u> comments	This is an extended overview on the genetic knowledge on MPN. The paper is interesting and well write, easy to be read.	