Reviewer’s report

Title: Whole-body MRI within a surveillance program for carriers with clinically actionable germline TP53 variants - the Swedish constitutional TP53 study SWEP53

Version: 0 Date: 16 Nov 2019

Reviewer: Florentia Fostira

Reviewer's report:

This report describes a proposed surveillance program for individuals of Swedish descent carrying TP53 loss-of-function variants, extending to children, who are not confirmed carriers.

Despite of some inconsistencies reported, eg. the estimated prevalence of LFS, I feel that there are some major aspects that have not been covered appropriately. There is absolutely no remark on the genetic counselling of these individuals. I don't think that by completing a survey, these individuals can feel assured or supported. Furthermore, the authors report that in Sweden they offer breast MRI in female TP53 carriers, but they do not discuss prophylactic mastectomy? And there are not guidelines for men or children?

I really can't understand why under-aged individuals, are included without having a genetic test. Of course, this should be done following the ethics corresponding to genetic testing in such individuals. I find it really pointless to handle children like they are TP53 mutation carriers, just because they have a parent carrying a likely pathogenic/pathogenic TP53 variant.

On top of everything, the manuscript is quite lengthy, with many repeats within the text and is really difficult to follow. I would see this effort to be published in a much shorter version with a more comprehensive layout and the issues mentioned to be addressed appropriately.

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