Reviewer’s report

Title: HNF1A gene p.I27L is associated with early-onset, maturity-onset diabetes of the young like diabetes in Turkey

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Reviewer: Monika Buraczynska

Reviewer's report:
The manuscript presents data from the study on the association of HNF1A gene polymorphism with early onset of diabetes mellitus in Turkish population. Since the literature on the subject is scarce the paper could be potentially interesting for those in the field. However, some issues should be addressed before acceptance.

1. The description of patient group is very unclear. Did all 565 subjects presented with clinical suspicion of MODY (see abstract)? If indeed all of them were suspected of having MODY, the age at diagnosis should be ≤ 25 years. In the Patients and methods section the authors state that inclusion criterion was "age at onset above 35 years". And again, in Table 1 the mean age at diagnosis is 25 years. Besides, the mean age of patients is 28.17 years. So how come for inclusion in the study the disease onset was set at > 35 years? Please clarify this issue.

2. All p values in Table 1 should be checked. For example, for creatinine (that the authors mistakenly call "creatine") p is < 0.001 not 0.156 as they state.

3. Table 3 - in the footnotes for this table the authors write "SNPs were expressed as allelic frequency (q) or prevalence of genotypes (%)". However, there are no allelic frequencies or percentage of genotypes given in this table!

4. The authors did not mention what was the power of the study. The sample size calculation has to be shown in the Methods section, along with the information which parameters were used to calculate power and sample size.

5. The English language should be extensively revised. Grammar and spelling still need to be corrected.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes
Are the conclusions drawn adequately supported by the data shown?
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Yes

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I am able to assess the statistics

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Needs some language corrections before being published

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