Reviewer’s report

Title: Increased skin autofluorescence of children and adolescents with type 1 diabetes despite a well-controlled HbA1c: results from a cohort study

Version: 1 Date: 22 Jun 2016

Reviewer: Baqiyyah Conway

Reviewer's report:

The authors have satisfactorily addressed all of my prior concerns. Other than stating that the comment on page 5 stating that Filipe at el asses skin auto fluorescence is incorrect—they assessed skin intrinsic fluorescence not autofluorescence (please correct this). The authors may want to note, in response to their statement on page 14 "An outstanding question is if this heterogeniety in patients reflects differences in risk for complications"that Sun et al (Diabetes Care. 2011 Apr;34(4):968-74) and Conway et al (Diabetes Care. 2011 Sep;34(9):e148) did observe such heterogeneity in relation to complications risk. Other than these two points, I have no further concerns.

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

Yes

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?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
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If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I currently am listed as an inventor on a patent relating to assessment of coronary artery calcification using the SCOUT, a skin intrinsic fluorescent reader. I was previously an employee of the University of Pittsburgh and have received travel support to scientific meetings from the University of Pittsburgh, which holds, at least in part, the above referenced pattern. I have no other financial competing interests. The only potentially perceived non-financial competing interest is having authored papers on data measured with a skin fluorescence reading instrument which at the time was potentially competing with the autofluorescence reader.

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