

# Review of: "Effects of Teachers' Professional Development on Students' Academic Achievement"

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**Potential competing interests:** No potential competing interests to declare.

**Dear editor,**

Below I offer my thoughts on the research.

The purpose of the study is not understood from the abstract.

T test results are given in the abstract. It is not considered appropriate to give numerical values in the summary. Results should be reported according to APA format.

There are many planning and methodological deficiencies in the research.

**The research is expected to answer the following questions.**

Hypotheses H5 and H6 are not significant.

Why was the difference between the pretest scores of the experimental group and the posttest scores of the control group examined in H5?

In H6, why was the difference between the pretest scores of the control group and the posttest scores of the experimental group examined? The reason should be explained.

The content of the training given to teachers should be explained in the research. Did all teachers receive the same training? What was the subject of the training? How many weeks did it take?

Was the education they received and the education they gave to students at school related to the same subject of mathematics? How was the education process given to students at school?

Did all teachers provide the same education? Which grade level students were studied?

Have all the teachers applied the knowledge they acquired during in-service training in their classrooms? How did teacher and school differences affect the internal and external validity of the experimental study?

Which measurement tool was used as a data collection tool in the research? Was the same measurement tool used for all students? Was the measurement tool used valid and reliable?

A t test was performed during the data analysis phase. Have the assumptions of the t test been examined? Was the data set suitable for t-testing?

Due to the deficiencies mentioned above, I do not find it appropriate to publish the research.