Review of: "Teaching the seasons of the year to kindergarten students using desktop virtual reality. A comparative study"

Ferdi Çelik[1]

1 Ondokuz Mayis University Samsun

Potential competing interests: No potential competing interests to declare.

Introduction & Related work section

1.   Some of the claims of authors seem superficial and lack depth. For example, authors claim that students within 4-6 age range are different than other age groups and they wonder how things work without providing any citations to back up the claim. Based on my experience, students aged 2-3 are also curious about how things work. It would be beneficial to explore existing research that investigates the cognitive development of children.

2.   The specific reason why dVR offers compared to conventional materials remains unsupported.

3.   In related work section, the authors mentions about the previous studies on VR but it lacks the particularity on dVR.

4.   dVR is not explained in detail. The concept of dVR requires more detailed explanation for readers unfamiliar with the term. Providing a clear definition and explaining its components would aid in better understanding the context of the study.

5.   Research questions are not given. It iss essential for guiding the study and providing clarity to readers.

6.   Related work section lacks inclusion of many recent important works in the field.

Method Section

7.   The authors claims previous researches on VR in kindergarten remains unsystematic. Why the research in this context remains unsystematic? What was the limitations of the previous researches? You did not even mention about Did they have any methodological flaws?

8.   In the first parapgraphs of method section, authors justify the need for their research. This section is not for justifying the need. You need to put them under introduction section or before method section.

9.   How did you ensure that all the participants were proficient users of computer? Being able to use a computer does not necessarily mean being proficient user of computers.

10.   You state that you applied two treatments and a total of 8 sessions and each session lasts for an hour and half. Did I understand it correctly that one treatment lasted for six hours? You did not mention about anything that it was applied in different days or you put some breaks within sessions. VR may have some side effects on students including headaches and fatigue.

11.   You need to detail the conventional treatment. Did you teach the same thing twice?

12.   How did you ensure the validity of your pre- post- test as you developed it?

Results Section

13.   Why did you use ANCOVA to analyze the data? Were the data distributed normally?

Discussion Section

14.   Discussion section is not enough. Integrate more recent studies into your discussion.