**Supplementary material 2**



**Other bias description:**

3\_Wang et al. 2016
Difference in the sample between very large groups, one group 125 participants, another 175 and that of kahoot 82

6\_Bawa 2018
That instructors want to use Kahoot can convey a more positive result to students than those who did not use it.

15\_Segura-Robles et al. 2020
The selection of the sample was carried out through an intentional sampling due to the ease of access to the students

17\_ Nikoletta-Zampeta et al. 2020

The treatments did not have the same duration as the tasks.

19\_ Martinez-Jimenez & Ruiz-Jimenez 2020

The questionnaire was voluntary and anonymous.

21\_Sanchez et al. 2019
There was a very unbalanced sample, 157 gamified and 317 traditional and there was no randomization in the tests

23\_Sailer & Sailer 2020

The participants were asked to prepare the videoconference, and from there an initial evaluation was made, it is not possible to control what each subject has studied at home.