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### Effectiveness of an educational strategy on implementing clinical guidelines among Spanish residents of family medicine (EDUCAGUIA): clinical trial by clusters

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**Background & Aim:** Clinical Practice Guidelines are developed with the aim of helping health professionals, patients or caregivers to make decisions about their health care, using the best available evidence. In many cases, incorporation of the recommendations into clinical practice also implies a need for change in routine clinical practice. The educational games as a strategy for implementing recommendations among health professionals has demonstrated to be effective in some studies but there is not enough evidence. The main objective of this study is to assess the effectiveness of a teaching strategy for the implementation of Clinical Practice Guidelines using educational games (e-learning EDUCAGUIA) to improve knowledge and abilities relating to clinical decision-making among family medicine residents. **Methods:** We propose a multicentric clinical trial with randomized allocation by clusters in Teaching Units of Family and Community Medicine in Spain. Sample size: 394 residents (197 in each group). The randomization unit will be the Teaching Units and the analysis unit will be the residents.

**Intervention:** Both groups will receive an initial 1 hour session on clinical practice guidelines use and usual dissemination strategy by email. Intervention group (e-learning EDUCAGUIA strategy): educational games with hypothetical clinical scenarios in a virtual environment. The main outcome will be the score obtained by the residents in evaluation questionnaires for each clinical practice guideline.

Other included variables will be: socio-demographic and training variables of residents and Teaching Unit characteristics. Statistical analysis: descriptive analysis of variables and baseline comparison of both groups.

**Main outcome analysis:** average score comparison of hypothetical scenario questionnaires between EDUCAGUIA intervention group and control group that will be performed at 1 and 6 months post- intervention, using 95% confidence intervals. A linear multilevel regression will be used to adjust the model.