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MOBILE APPLICATIONS TO CHECK DRUG INTERACTIONS: QUALITATIVE AND QUANTITATIVE ANALYSIS

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BACKGROUND

- The number of medical apps has increased exponentially in recent years, being more than 230.000 available.
- Because of the lack of regulation, some of these apps may offer inaccurate content or may not reach the minimum quality standards in order to be used by healthcare professionals.

PURPOSE

To analyze the drug interaction checker apps available for mobile services and to classify their quality according to MARS score.

MATERIALS AND METHODS

• Cross-sectional study performed in october 2017 to find and classify the best mobile applications to check drug interactions according to MARS score.

Inclusion criteria

Apple
App Store



Search.... "Drug interaction"





Google



• No drug searcher available or drug searcher only available for a specific drug class.

The selected apps were downloaded in a smartphone and in a tablet of both systems in order to be analyzed.

- No health & fitness or medicine category.
- Pay or subscription app.

No english language.

Not updated in the last 36 months.

The app's quality and reliability was measured by means of MARS

(Mobile App Rating Scale).

Functionality Engagement Information Aesthetics

• Social Mean Score was measured according to Google Play reviews

Data collection and statistical analysis



4,03

RESULTS

Met the criteria

mean score was 3.01 (1.93 - 4.28).

TOP five (0-5):



4,28



4,08







Apps identified

Drugs.com Medscape

Medication Guide

Pharmacist Pro-Drug Interaction Checker

3,61

Pocket Pharmacist

3,55

Assist UK-Drug Interactions 3,26

CONCLUSIONS

There is a high amount apps to check drug interactions but only few have enough quality to be used with guarantees by healthcare professionals in their clinical activity.

REFERENCES

* Stoyanov SR et al. Mobile App Rating Scale: A New Tool for Assessing the Quality of Health Mobile Apps. JMIR mHealth and uHealth. (2015).



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