MOBILE APPLICATIONS TO CHECK DRUG INTERACTIONS: QUALITATIVE AND QUANTITATIVE ANALYSIS
MONTERO DELGADO JA1, DE PORRúa JT2, CANTUDO CUENCA MR3, SUÁREZ GONZÁLEZ M1, GOMEZ MELINÍ E3, RAMOS SANTANA E3, VIÑA ROMERO MM3, GUTIERREZ NICOLAS F1, TEVAR ALFONSO E1, PLASENCIA GARCÍA I4, MERINO ALONSO FJ1
1Hospital Universitario Nuestra Señora de Candelaria (S/C de Tenerife, Spain), 2Hospital de la Santa Creu i Sant Pau (Barcelona, Spain)
3Hospital General San Agustín (Jaén, Spain), 4Complejo Universitario de Canarias (S/C de Tenerife, Spain).

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.

Apple App Store
Search.... “Drug interaction”

Google play

Exclusion criteria
• No drug searcher available or drug searcher only available for a specific drug class.
• No health & fitness or medicine category.
• No English language.
• Pay or subscription app.
• Not updated in the last 36 months.

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

• 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

RESULTS
139 Apps identified
12 Met the criteria
MARS mean score was 3.01 (1.93 - 4.28).

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

REFERENCES