

Abstract Number: 1ISG-013

SMARTPHONE APPLICATIONS FOR PATIENTS DIAGNOSED WITH GENITOURINARY TUMOURS: ANALYSIS OF THE QUALITY USING THE MOBILE APPLICATION RATING SCALE

Amor MA, Collado-Borrell R, Escudero-Vilaplana V, Ribed-Sánchez A, Melgarejo-Ortuño A, García-Moreno FJ, García-Sánchez S, Narrillos-Moraza A, Ruiz-Briones P, Herranz-Alonso A, Sanjurjo Sáez M

Servicio de Farmacia. Hospital General Universitario Gregorio Marañón. Instituto de Investigación Sanitaria Gregorio Marañón (IISGM). Madrid, España

OBJECTIVES

Background: The large number of health-apps for genitourinary cancers makes necessary a transparent and objective evaluation by app experts and healthcare professionals

OBJECTIVE: To analyze the quality of apps for patients diagnosed with genitourinary cancers using the MARS methodology

METHODS

Design: observational cross-sectional descriptive study

- **INCLUSION CRITERIA:** apps available in the App and Play Store for genitourinary cancers intended to patients and/or careers
- **INCLUSION PERIOD:** february 2019



MARS → 23 evaluation criteria in 5 domains

- ✓ Engagement
- ✓ Functionality
- ✓ Aesthetics
- ✓ Informations
- ✓ Subjective quality



Rated from 1 (inadequate) to 5 (excellent)

REGISTERED DATA

Platform	Type of cancer
Cost	Purpose
Date of the last update	Participation of health professionals (HP)

RESULTS

46 APPS were downloaded

- 31 Android
- 6 iOS
- 9 both platforms

30.4% prostate
17.4% cervix
13.0% testicle
13.0% ovary



63.1% informative
23.9% preventive
13.0% diagnostic



15.2% developed by HP

€ 89.1% free

60.9% updated in the last year

Average MARS score: 2.98
Maximum 4.63
Minimum 1.95

- ✓ Similar **Functionality** scores
- ✓ Greatest differences in **Engagement** and **Aesthetics**
- ✓ Significant differences: **platform** and participation of **HP**

CONCLUSIONS

Very few apps are focused on how to handle the disease after diagnosis, correct administration of the treatment and adequate monitoring of symptoms. The participation of health professionals is correlated to the quality of the apps. **MARS is a helpful methodology to analyze app quality and make better recommendations to patients.**

References: Stoyanov SR, Hides L, Kavanagh DJ, Zelenko O, Tjondronegoro D, Mani M. Mobile app rating scale: a new tool for assessing the quality of health mobile apps. JMIR Mhealth Uhealth 2015 Mar 11; 3(1): e27 [doi: 10.2196/mhealth.3422]

