

Undergraduate Students, Medical, Biomedical and Health Sciences

Smartphone addiction among Qatar University students: a cross-sectional study

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Background

Datagonal distances and a second series of the second seco anxery and bepression scores.^{5,4} Inadequate skep durlation,^{5,4} and negative health related behaviors, such as ealen growf east food, lower levels of physical exercise, and increase in body weight.¹¹ This highlights the importance of research examining risk factors for SPA and the mechanisms underlying the potential relationships between SPA with negative health outcomes and lower academic achievement among college students.

In Qatar, recent estimates show that 95% of the general population In Qatar, recent estimates show that 95% of the general population and 95% of popel aged 18-24 years reported using a samtphone. ¹⁸ However, the prevalence of SPA among college students in Qatar is unknown. Additionally, no prior studies have examined the potential negative effect of SPA on academic performance, health related behavion, and psychological web-being among undergraduate students in Qatar. Identifying characteristics of students at insk of SPA and the extert of SPA impact on academic performance and health and psychological web-being may shad light on potential underlying methamism and tageted preventable measures.

Aim

The aims of this study were to (I) estimate the prevalence of SPA among students in Catar University (QU); (II) assess the correlation between daily duration of smartphone use (SPU) and SPA: (III) assess the relationship between SPA with (a) current Grade point Average (GPA), (b) psychological distenss, and (c) students' perceived negative inpact of SPU on their learning and academic pertainmon, sleep at night, social acadivy, and physical and mental and metal and metal and metal and metal the students of the stu

Methods

We used a cross-sectional study using a self-administered e We used a cross-sectional study using a self-administered electronic or paper questionmie. All undergraduale and graduate students registered in QU during Fail 2019 were included. The first part of the information of the section of

diagnosed chronic diseases (yes, no), current GPA, and daily duration of emantphone use in hours. The second part of the questionnaire measured SPA using Smattyhone Addiction Scale (SAS), which is a set-administered share of the set of the set of the set of the set of the duration of emantphone use. The set of the set of the set with the set of the set of the set of the set of the set strongly agree). The overall SAS score range set between 6 and Sing (chrong) diagnee, diagnee, weakly diagnee, weakly agree, agree, strongly agree), the overall SAS score range between 6 and Sing (chrong) diagnee, diagnee, weakly diagnee, weakly agree, agree, strongly agree), the overall SAS score range between 6 and Sin (chrong) thagenee, diagnee, weakly diagnee, weakly agree, agree, strongly agree). The overall SAS score range between 6 and Sing (chrong) thagenee, diagnee, weakly diagnee, weakly agree, agree, strongly agree). The overall SAS score range between 6 and Sing (chrong) thagenee, diagnee, weakly diagnee, weakly agree, agree, a strongly agree). The device of the set of the set of the device (chrong) thagenee, the likelihood of tautient having "psychological distress." The GHQ-28 masses the frequency of psychological distress. The GHQ-28 masses the frequency of psychological distress." And GHQ-28 has been validated in English and Arabic." The GHQ-28 masses the frequency of psychological distress, and scores s23 are classified as the psychological distress, and scores s24 are cuestionnaire agree (doornot Linet scale) with 10 statements (Figure 2) about their perceived impact of smartphone use on their scaleding performance, learning, sleep at right, social advity, and physical and menti health.

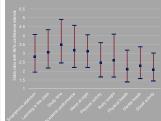
Descriptive statistics were used to summarize the data. Multivariable logistic and linear regression analyses were performed to examine the relationships between the prediction and the outcome variables. We also performed sensitivity analyses according to survey completion method (paper and electricol): to assess for potential selection; response, and social acceptability biases. All analyses were performed using IBM SPS satistics V26.

Results

Variable	в	SE	P-value	OR (95% CI)
Daily duration of SPU (hours)	0.157	0.03	<0.001	1.17 (1.11, 1.23)
PDS				
No				
Yes			<0.001	2.48 (1.71, 3.59)
Gender				
Female				
Male			<0.001	
Gender*PDS				
Female*PDS (yes)				
Male* PDS (yes)				0.39 (0.17, 0.87)
Physical exercise in previous week				
None				
1-4 days				
5-7 days				0.46 (0.24, 0.89)
Chronic disease status				
No				
Yes				

PU, smartphone use; PDS, psychological distress status; Ref, reference category Articisted for any employment status, year in the program, and college.

Figure 2. The relationship between SPA with domains of perceived negative impact of SPU



Conclusion

SPA is highly prevalent among QU students. SPA or longer duration of SPU have negative impact on academic performance, spychological distress, and perceived physical and metal health, and social activity. The mechanisms underlying these findings are still not clear. Further fongulutiant research with mixed designs is required to examine the direction associations and identify potential causing mechanisms. Such information could be used to design and test mechanisms. intervention to prevent or minimize the negative impact of SPA and excessive SPU

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