GERD Symptoms among Medical Students: Prevalence and Associations

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Introduction and Aim

Gastroesophageal reflux disease (GERD) occurs when stomach acidic content backs up into the esophagus irritating and damaging its lining. Its prevalence was shown to be in an increase, studies conducted in India and KSA found its prevalence among medical students to be 52.5% (Karthik et al., 2017) and 53.2% (Gamal, & Masoodi, 2018), respectively. There were no published researches regarding the prevalence of GERD in the UAE at the time this study was conducted, indicating the need for local data. This study was conducted to determine the prevalence of GERD symptoms among medical students, its likelihood, characteristics of its distribution, and associations with certain factors, including age, gender, physical exercise, life habits, and quality of life.

Methodology

Study Design:	Instrument:
A cross-	Self-administered 18-item questionnaires
sectional	were used. They assessed GERD
design was	likelihood using the GERDQ scale, which
used.	depends on frequency of GERD
Sample:	symptoms (heartburn and
450 students	regurgitation), negative
from the	predictors of GERD
colleges of	(epigastric pain and nausea),
Pharmacy,	and positive predictors of
Medicine,	GERD (sleep difficulty due to symptoms
Dentistry, and	and use of medications to relief them).
Health	They also inquired about age, gender,
Sciences at the	frequency of physical exercise, life habits
University of	(including breakfast habits), quality of
Sharjah were	life, and aspects affected by GERD
employed.	symptoms.

Data Analysis

Statistical Package for Social Sciences (SPSS) 25 was used to analyse the data, bivariate analyses were done using Tests to determine the presence of Chi-Square associations, after which the odds ratio was used to estimate these factors' relative risk.



Continuation of Results





symptom:

2.29 x more likely to have veir life quality affected by their sympt **K**clihood 3.03 x more likely to have their social activity affected, decreasing their

GERD High life quality





Low GERD Likelihood High GERD Likelihood

Discussion

 A high GERD likelihood was found in around one fifth of the sample, which is about half the GERD prevalence found by previous studies conducted in other countries

(Karthik et al., 2017 and Gamal, & Masoodi, 2018).

 Missing breakfast regularly demonstrated conflicting results; it was associated with both a negative predictor, nausea, and a positive predictor, sleep difficulty due to symptoms. This is partially consistent with another study that found missing breakfast to be a risk factor for GERD among medical students (Sharma, Sharma, & Puri, 2018).

·High/Intermediate exercise frequency showed a significant association with a lower GERD likelihood and a lesser risk of having sleep difficulty due to GERD symptoms, which contradicts with the results found by Gamal and Masoodi (2018) when they conducted a similar study in Saudi Arabia, as they found no significant correlations in that regard.

•The influence of a higher GERD likelihood on life quality is consistent with the findings of another study conducted in Saudi Arabia (Algethami et al., 2018).

·Limitations of this study were due to the sampling method, as self-administered questionnaires are a non-probability sampling method; it is one of convenience which may result in bias of the results.

Conclusion and Recommendations

A high GERD likelihood was found in 17.7% of the population, it demonstrates associations with missing breakfast regularly, a lower frequency of exercise, and a lower life quality. As missing breakfast regularly results in both nausea and sleep disturbances due to GERD symptoms, awareness programs regarding the importance of breakfast as a meal would be beneficial, as well as plans to promote a high exercise frequency, as that could pose as a protective factor against GERD.